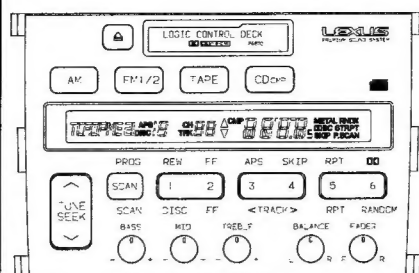


Service Manual

PIONEER
The Art of Entertainment



ORDER NO.
CRT1367

HEAD UNIT

KEX-M9161ZT

UC

KEX-M9161ZT-91

UC

- These models have been installed in LEXUS SC400 and SC300.

Model	Supplementary Model	Part No.	ID No.
KEX-M9161ZT/UC	KEX-M9161ZT-91/UC	86120-24220	P6800

- Supplementary model is identical to the original model except for the addition of following items.

Carton	CHG1592
Styrofoam (R)	CHP1273
Styrofoam (L)	CHP1274
Cover	CEG-236

- Dolby and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
- Noise Reduction System manufactured under license from Dolby Laboratories Licensing Corporation.
- See the separate manual CX-156 (CRT-468) for the cassette mechanism description.
- If this equipment is not connected with the satellite switch, it is not possible to turn on and off the power supply for the radio nor adjust the volume. When repairing, be sure to connect the satellite switch jig to this unit.

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PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan
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 © **PIONEER ELECTRONIC CORPORATION 1991**

FD MAR. 1991 Printed in Japan

General

Grounding system Negative type

Weight 2.4kg

(Bass) $\pm 10\text{dB}$ (100Hz)

(Treble) $\pm 10\text{dB}$ (10kHz)

Tape Compact cassette tape

(C30 - C90)

(+0.14cm/sec., - 0.05cm/sec.)

Wow & flutter Less than 0.15% (WRMS)

Crosstalk More than 40dB

Stereo separation..... More than 30dB

Dolby NR OUT More than 40dB

Dolby NR IN More than 45dB

Frequency range..... 87.9 – 107.9MHz

Usable sensitivity $15 \pm 6 \text{ dB } \mu\text{V}$

Signal-to-noise ratio More than 48dB

Distortion Less than 1.5%

Stereo separation..... More than 25dB

Frequency range..... 530 – 1710kHz

Usable sensitivity $25 \pm 6 \text{ dB } \mu\text{V}$

Usable selectivity More than 30dB (\pm 9kHz)

Signal-to-noise ratio More than 40dB

2. CONNECTOR FUNCTION DESCRIPTION

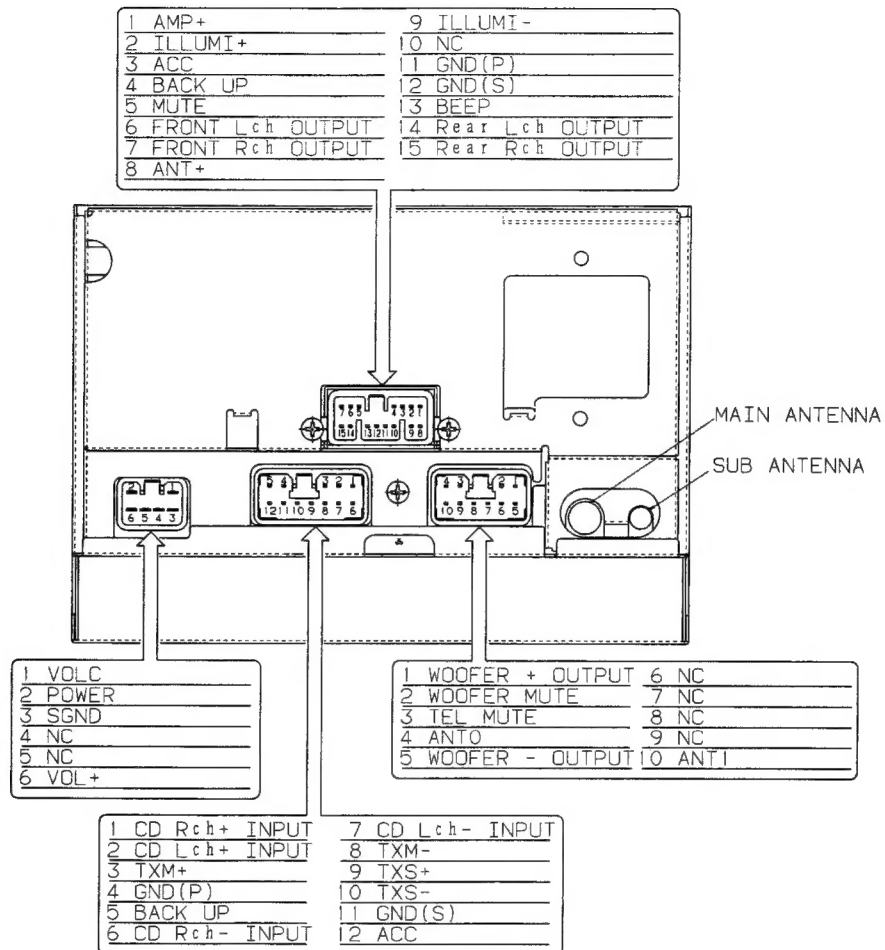


Fig. 1

3. DISASSEMBLY

● Removing the Case (Upper)

1. Insert and turn a tweezers to remove the case.
2. Raise the case to remove.

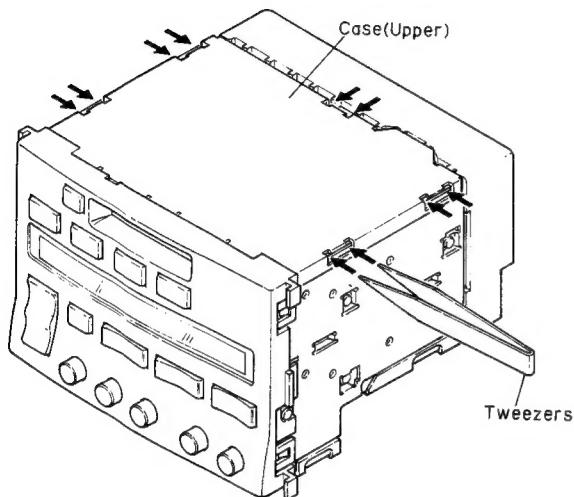


Fig. 2

● Removing the Cassette Mechanism Assy

1. Remove the four screws.
2. Disconnect the connector.
3. Remove the cassette mechanism assy.

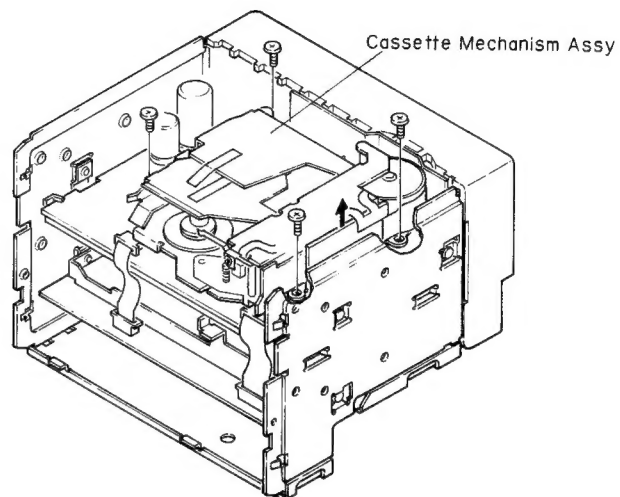


Fig. 4

● Removing the Grille Assy

1. Remove the two screws.
2. Press the tabs at four locations, and then pull out the grille assy.

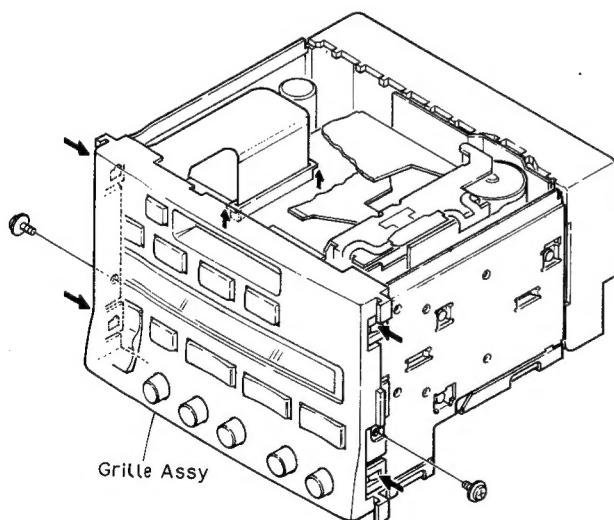


Fig. 3

● Removing the Case (Lower)

1. Insert and turn a tweezers to remove the case.
2. Raise the case to remove.

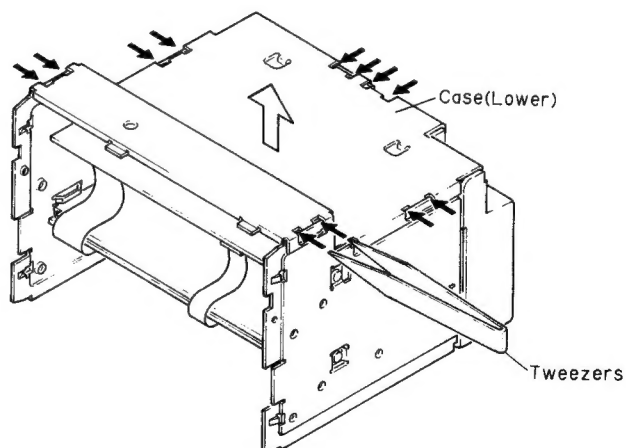


Fig. 5

● Removing the Audio Section

1. Remove the six screws A.
2. Disconnect the two connectors, and then remove the audio section.

● Removing the Control Unit

1. Remove the four screws B.
2. Disconnect the three connectors, and then remove the control unit.

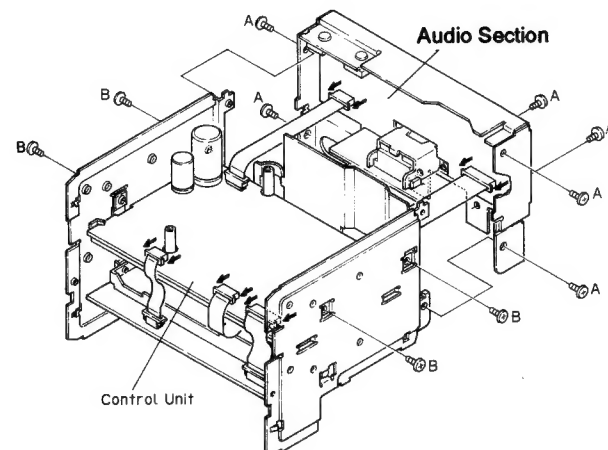


Fig. 6

● Removing the Cover Assy

1. Remove the three screws E and two screws F.
2. Unbend the tab at a location indicated by arrow until straight.
3. Remove the cover assy.

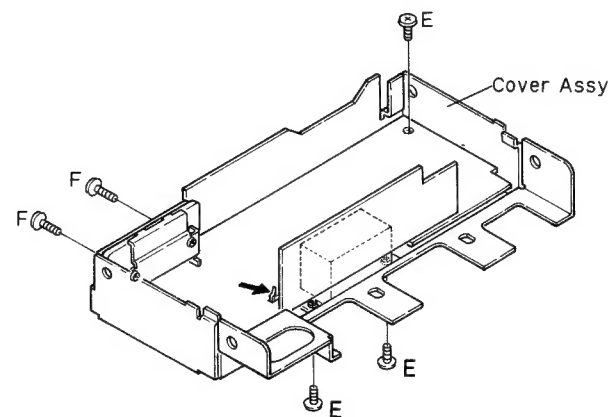


Fig. 7

● Removing the Key Board

1. Remove the nine screws.
2. Disconnect the connector.
3. Remove the key board.

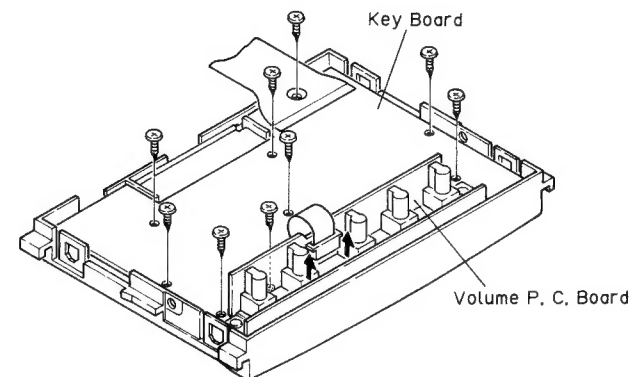


Fig 8

● Removing the Communication Unit

1. Disconnect the connector.
2. Remove the three screws.
3. Remove the communication unit.

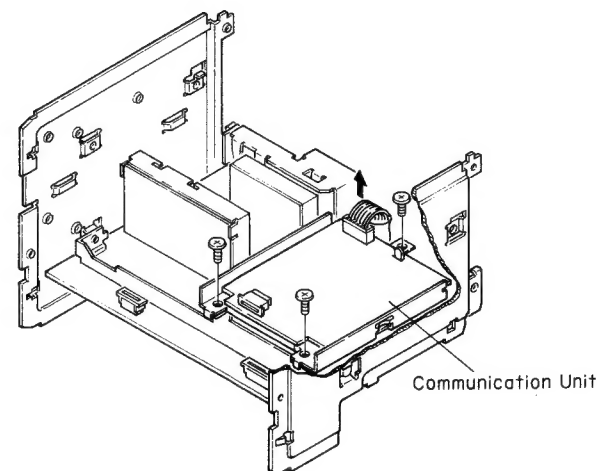


Fig. 9

4. CIRCUIT DESCRIPTION

4.1 CD COMPRESSION

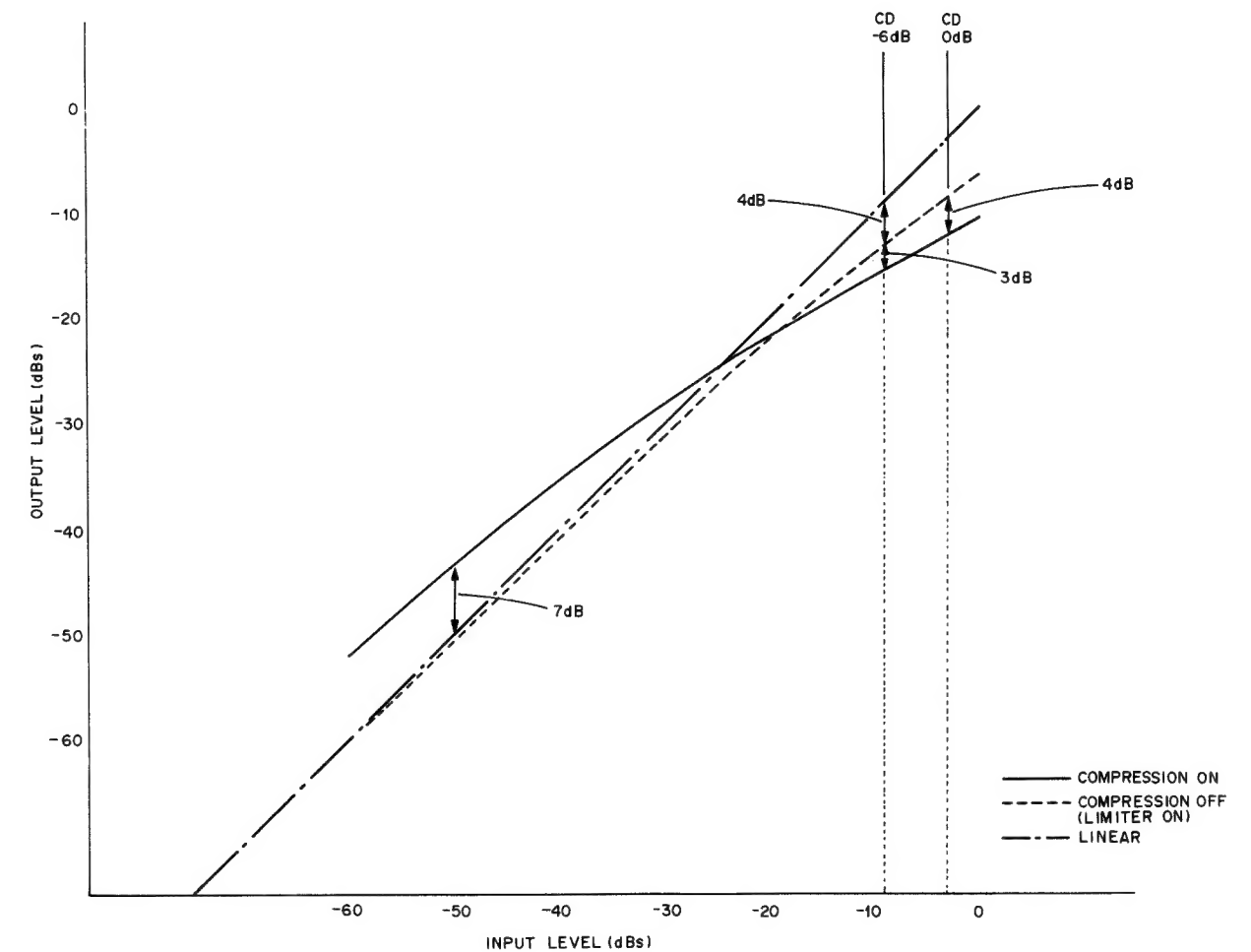


Fig. 10

● Compression "OFF"

Only the high volume portion of the CD (Compact Disc) sound is compressed.

● Compression "ON"

When this function is "ON" it compresses the dynamic range by slightly magnifying the low volume sound and reducing the high volume sound. This is often desirable because a CD with a large dynamic range, such as a classical music CD, tends to make the high volume parts too loud when you adjust the overall volume to make the quieter parts loud enough.

4.2 BLOCK DIAGRAM

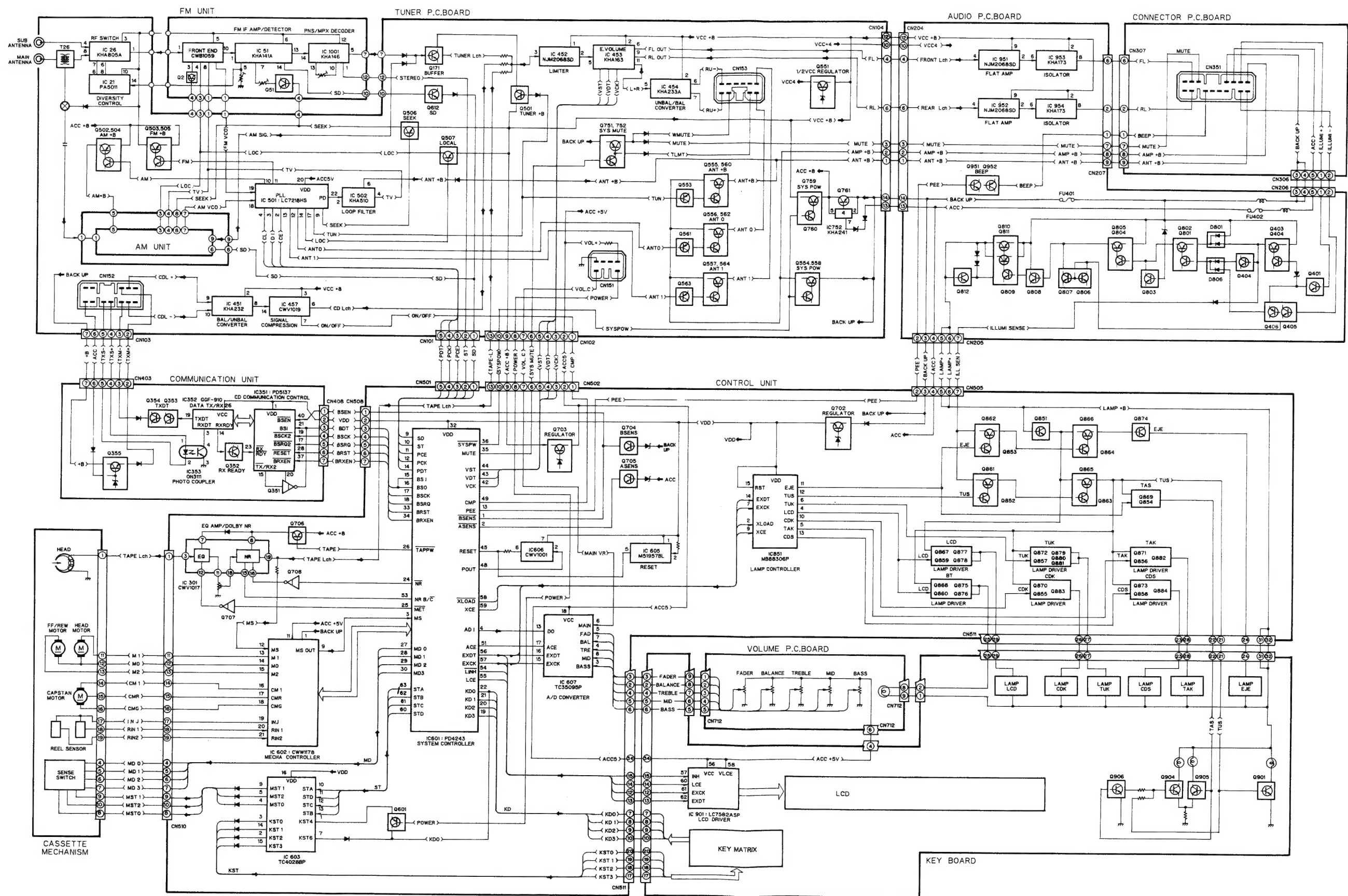


Fig. 11

5. GENERAL GUIDE

5.1 RADIO

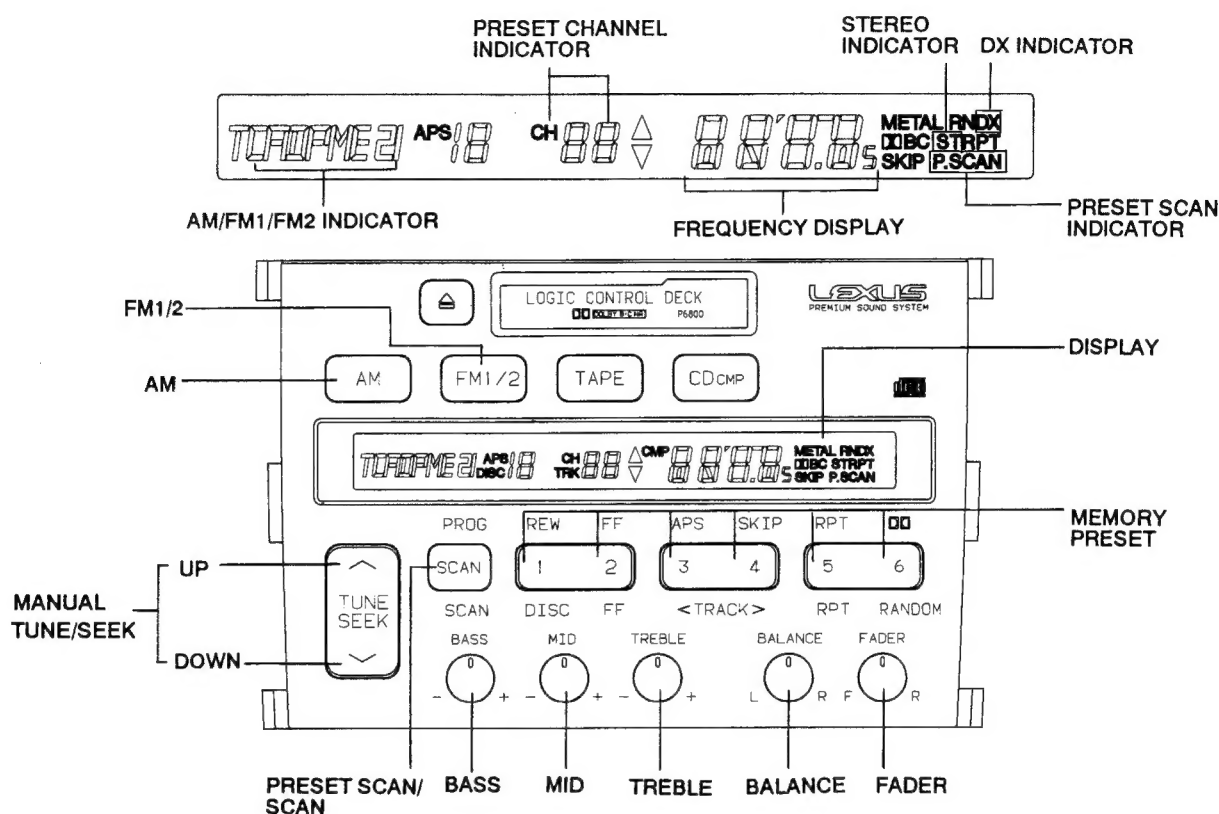


Fig. 12

● Manual/Seek Tuning:

When the \wedge (up) side of the TUNE, SEEK button is pressed, and when the \vee (down) side is pressed, the frequency is decreased in the same way. Holding the button depressed for more than 0.5 seconds starts seek tuning, which stops when a station broadcasting a sufficiently strong signal is received.

When only weak signals or no station is received, the frequency returns to the initial frequency, then the reception is changed to the DX mode.

● Memory Preset:

- (1) Select the required band among the FM1, FM2, and AM bands.
- (2) Tune to the broadcast station required to be stored in memory..
- (3) Press and hold one of the Memory Preset button for more than 2 seconds.

- (4) A beep tone will be heard when the tuned station is stored in the memory corresponding to the Memory Preset button pressed.

- (5) Up to six stations can be memorized for each of the FM1, FM2 and AM bands.

● Preset Scan/Scan Tuning:

When the SCAN button is pressed, all the stations stored in the Memory Preset buttons will be received for 5 seconds in sequence.

When the SCAN button is held pressed for more than 2 seconds, the Scan Tuning mode is activated and station broadcasting strong signals will be received for 5 seconds in sequence. When the tuning returns to the frequency from which the Scan Tuning was started, the receiving mode is changed to the DX mode.

To release Preset Scan or Scan Tuning, press the SCAN button again.

5.2 TAPE

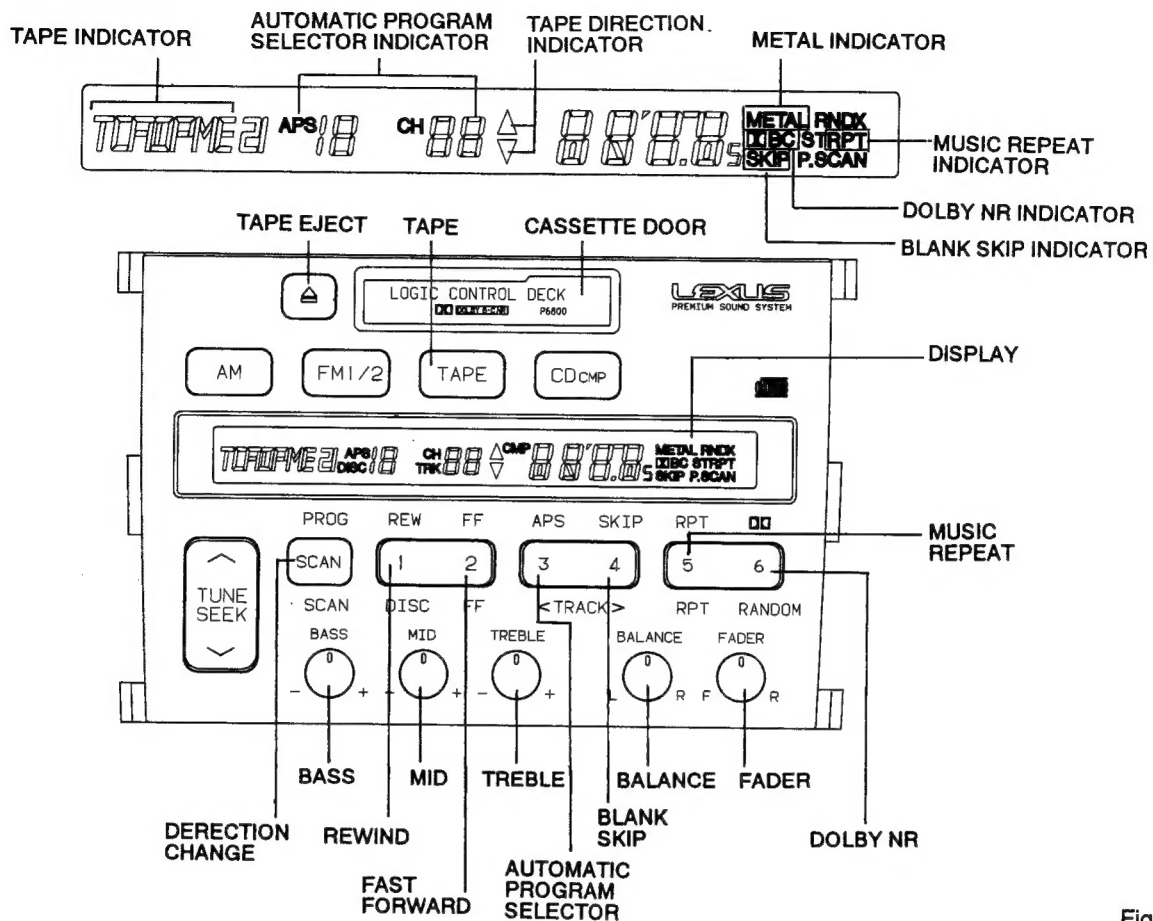


Fig. 13

● Rewind/Fast Forward:

Press the REW (or FF) button to rewind (fast-forward) the tape, and press it again to release the function.

● APS:

With the APS button, the beginning of any required tune up to 9 tunes before and after the current tune can be detected automatically. After pressing the APS button the number of times corresponding to the number of the tune to which you want to skip (for three times to select the 3rd tune), press the FF button to search in the forward direction or press the REW button to search in the reverse direction. The tape will stop at the beginning of the designated tune and play starts automatically.

(For example)

When the FF button is pressed after pressing the APS button three times, the tape is fast-forward by skipping two tunes in the forward direction, and play will start from the beginning of the 3rd tune.

● Blank Skip:

With the SKIP button pressed ON, when a blank (non-

recorded) section of more than 15 seconds is detected, the tape is fast-forwarded to the beginning of the next tune. When the SKIP button is pressed again, the Blank Skip function is released.

● Music Repeat:

With the RPT button pressed ON, when the current tune is finished, the tape will be rewound to the beginning of the tune and play will restart automatically. When the RPT button is pressed again, the Music Repeat function is released.

● Dolby Noise Reduction*

Press this button when using a tape recorded with the Dolby Noise Reduction system.

Each press of this button shifts the Dolby NR mode as follows :

→ Dolby NR off → Dolby B NR → Dolby C NR →

* Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

Dolby and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

● Ejecting Tape:

The tape can be ejected at any time by pushing the TAPE EJECT button.

5.3 CD

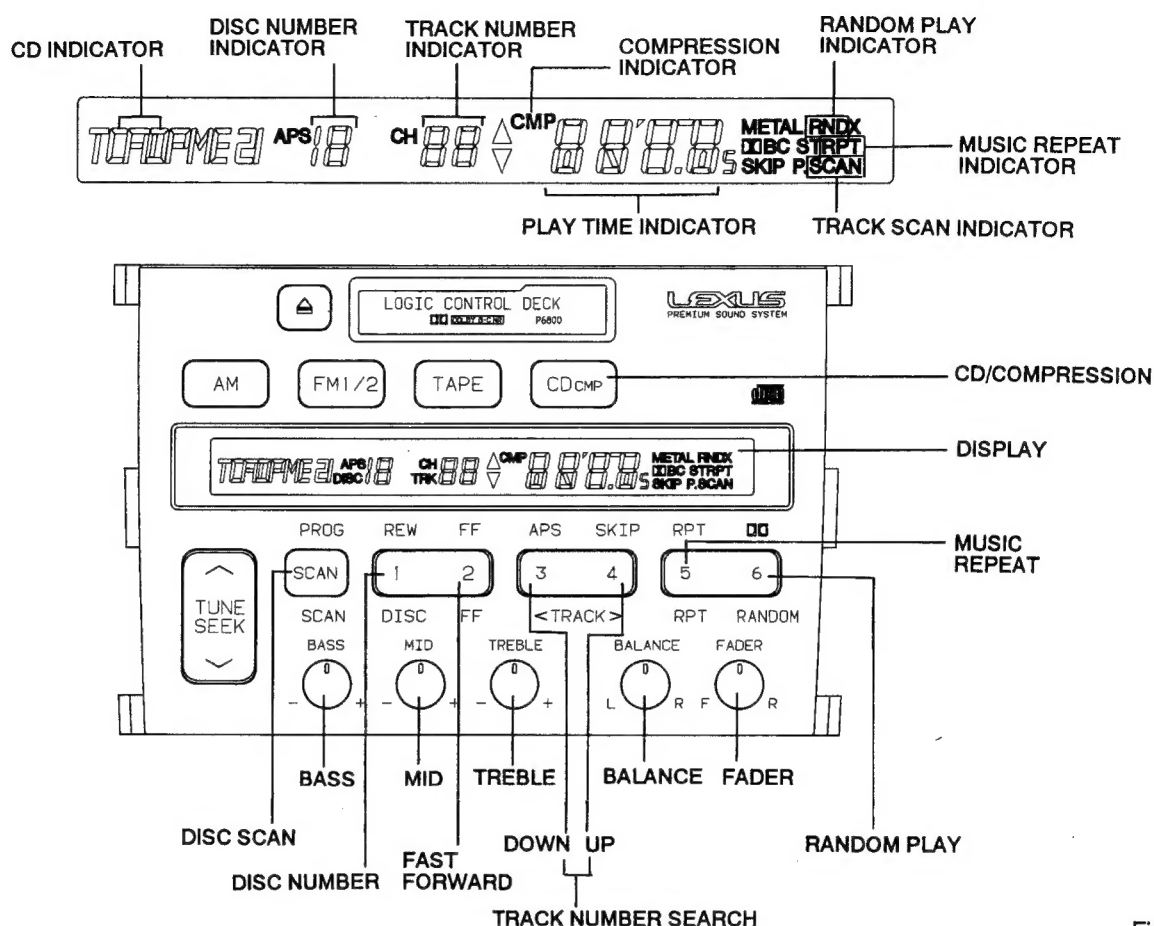


Fig. 14

● Changing the Discs:

When the DISC button is pressed, the disc number is counted up, and the disc designated by the DISC button will be played. When the DISC button is held pressed for more than 0.5 seconds, the disc number is counted up continuously. If a tray with no disc in the magazine loaded in the CD changer is selected, the corresponding disc number will not be displayed.

● Track Search:

When the TRACK < button is pressed, the track number is counted down and the designated track will be played. When the TRACK < button is held pressed for more than 0.5 seconds, the track number will be counted down continuously.

When the TRACK > button is pressed, the track number is counted up and the designated track will be played. When the TRACK > button is held pressed for more than 0.5 seconds, the track number will be counted up continuously.

● CD Compression

To switch on the compression function, press this button while the CD is being played. Pressing the button again, will turn it off.

● Fast Forward:

The playing position is fast-forwarded while the FF button is pressed. During fast-forwarding, playback sound can be heard.

● Music Repeat:

When the RPT button is pressed, the current track will be played repeatedly. Press the RPT button again to release the Music Repeat function.

● Random Play:

When the RANDOM button is pressed, the track to be played next will be selected automatically by the built-in microcomputer.

● Disc Scan:

When the SCAN button is pressed, the beginning of all the tracks on the discs loaded in the CD changer will be played for 10 seconds in sequence. When play returns to the disc from which Track Scan was started, Track Scan will be released. To release the Track Scan function during its operation, press the SCAN button again.

6. ADJUSTMENT

Notice:

Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.

Z: Output impedance of the SSG.

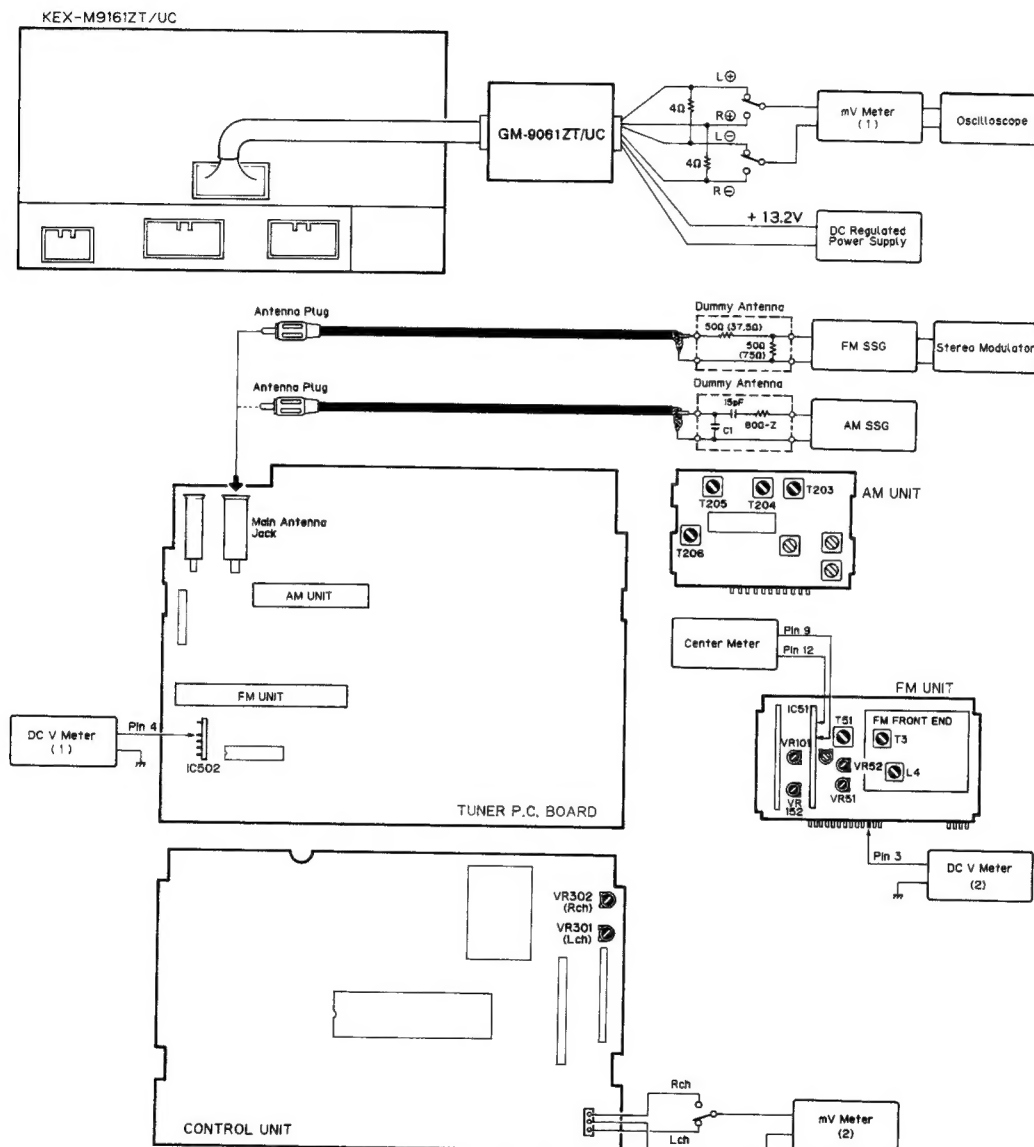


Fig. 15

DOLBY NR ADJUSTMENT

No.	Cassette Tape	Adjusting Point	Adjustment Method (Switch Position)
1	NCT-150 (400Hz, 200nwb/m)	VR301 (Lch) VR302 (Rch)	mV Meter (2) : 388mV (-6dBs) (DOLBY NR Switch: OFF)

AM ADJUSTMENT

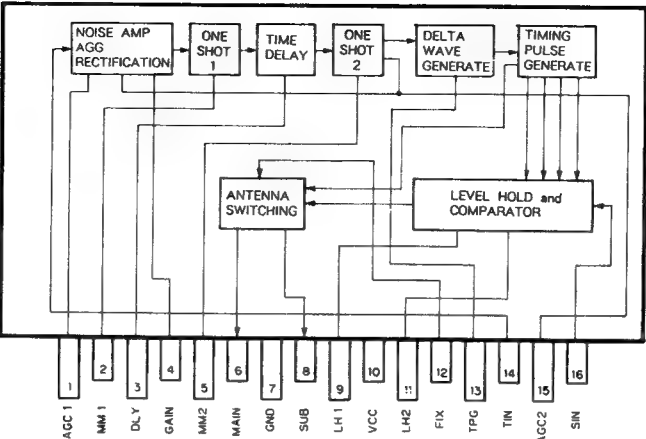
	No.	AM SSG (400Hz, 30%)		Displayed Frequency (kHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency (kHz)	Level (dB μ V)			
Tuning Volt	1	—	—	530	—	Verify that DC V Meter (1) is 1.0 ± 0.3 V
	2	—	—	1,710	—	Verify that DC V Meter (1) is 6.0 ± 0.5 V
	3	600	25	600	T203, 204, 205, 206	mV Meter (1) : Maximum
SEEK	1	1,000	35 ± 8	1,000		Verify that SEEK stops. SEEK stops level: AdB
	2	1,000	$A + 22 \pm 5$	1,000		Verify that SEEK stops.

FM ADJUSTMENT ※1 Stereo MOD.: 1kHz, L+R=90%, Pilot=10%

	No.	FM SSG (400Hz, 100%)		Displayed Frequency (MHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency (MHz)	Level (dB μ V)			
IF	1	98.1	60	98.1	T51	Center Meter: 0
Front End	1			107.9	L4	DC V Meter (1) : 7.5 ± 0.2 V
	2			87.9	—	Verify that DC V Meter (1) is more than 1.4 ± 0.6 V.
	3	98.1	15	98.1	T3	mV Meter (1) : Maximum
ARC	1	98.1	60	98.1	VR51	DC V Meter (2) : 2.5 ± 0.1 V
MPX	1	98.1 ※1	60	98.1	VR101	mV Meter (1) : Separation Maximum
	2	98.1 ※1	35	98.1	VR152	mV Meter (1) : Separation 5dB
SEEK	1	98.1	21 ± 6	98.1	VR52	Make SEEK stop. SEEK stops level: 8dB
	2	98.1	$B + 28 \pm 10$	98.1	—	Verify that SEEK stops.

ICs

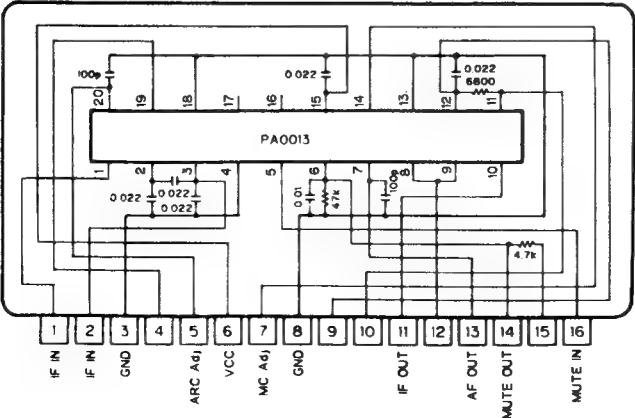
PA5011



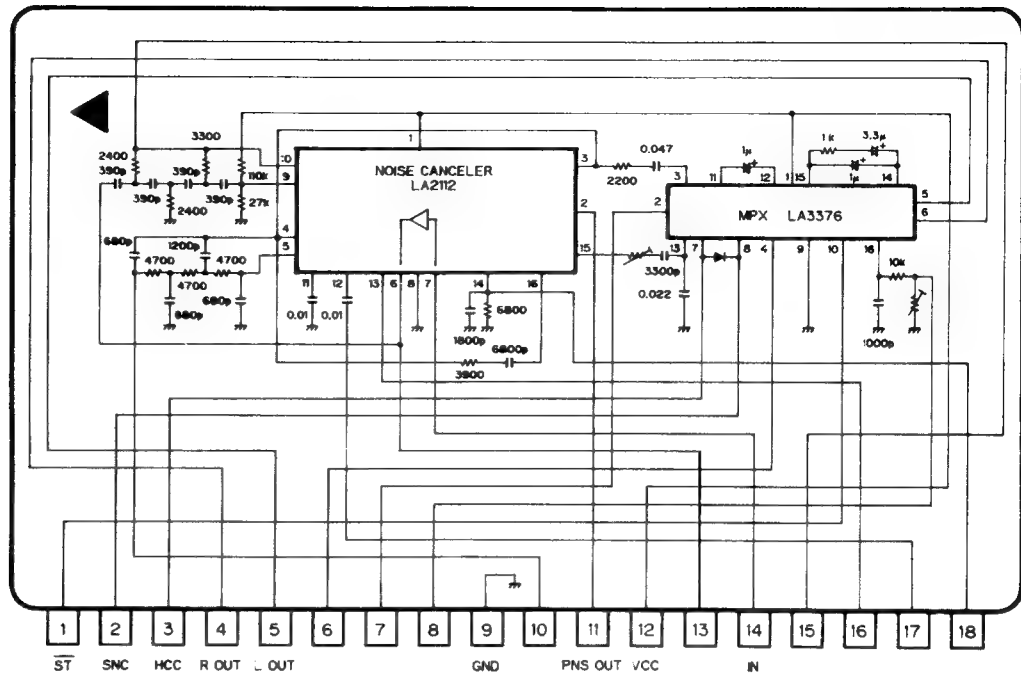
Pin Functions (PA5011)

Pin No.	Pin Name	I/O	Functions and Operation
1	AGC1		Connected to gain control, noise amplifier AGC1 CR.
2	MM1		Connected to MMV1 output pulse width setting capacitor.
3	DLY		Connected to time delay setting capacitor.
4	GAIN		Connected to noise amplifier gain setting CR.
5	MM2		Connected to MMV2 output pulse width setting capacitor.
6	MAIN	O	"L" when the main antenna is selected.
7	GND		
8	SUB	O	"L" when the sub antenna is selected. Output phase is the opposite of that of the main antenna. Open corrector output.
9	LH1		Connected to level hold 1 capacitor.
10	VCC		
11	LH2		Connected to level hold 2 capacitor.
12	FIX	I	Auto mode when open. Fixed at main antenna when connected to GND. Fixed at sub antenna when connected to VCC.
13	TPG		Connected to timing pulse generation capacitor.
14	TIN	I	Noise amplifier input terminal. The tuner signal meter output signal passes through a capacitor and is input.
15	AGC2		Connected to noise amplifier AGC2 CR.
16	SIN	I	Level hold circuit input terminal. Tuner signal meter output signal is input.

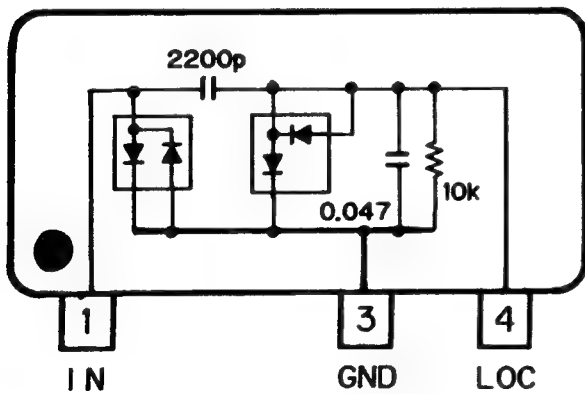
KHA141A



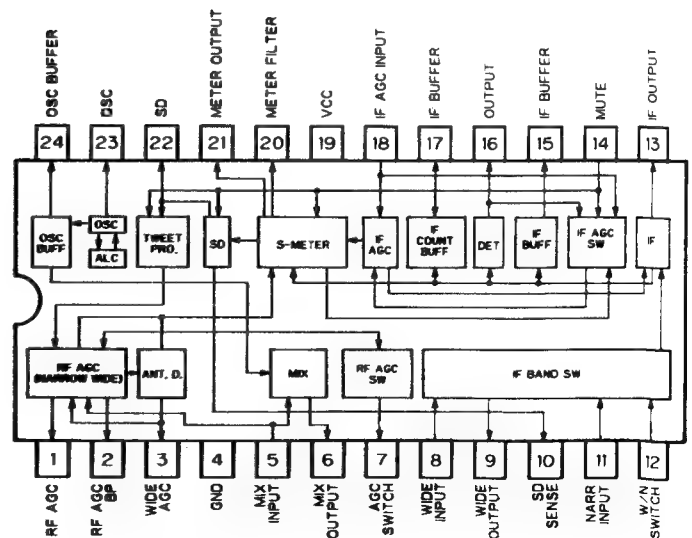
KHA146



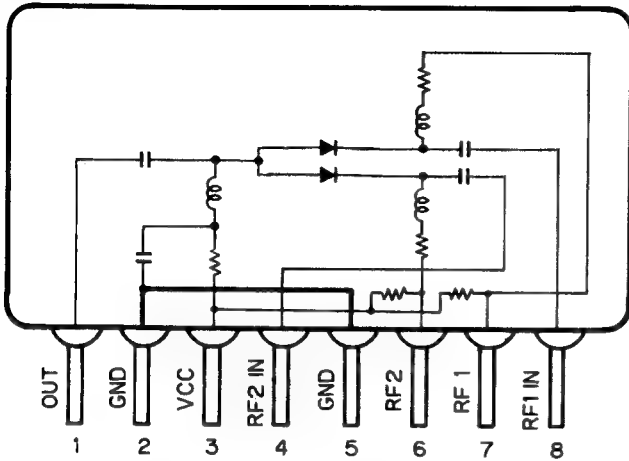
KHA507A



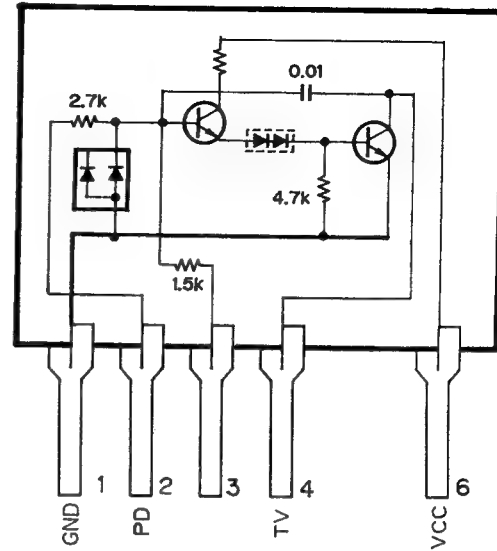
LA1136N



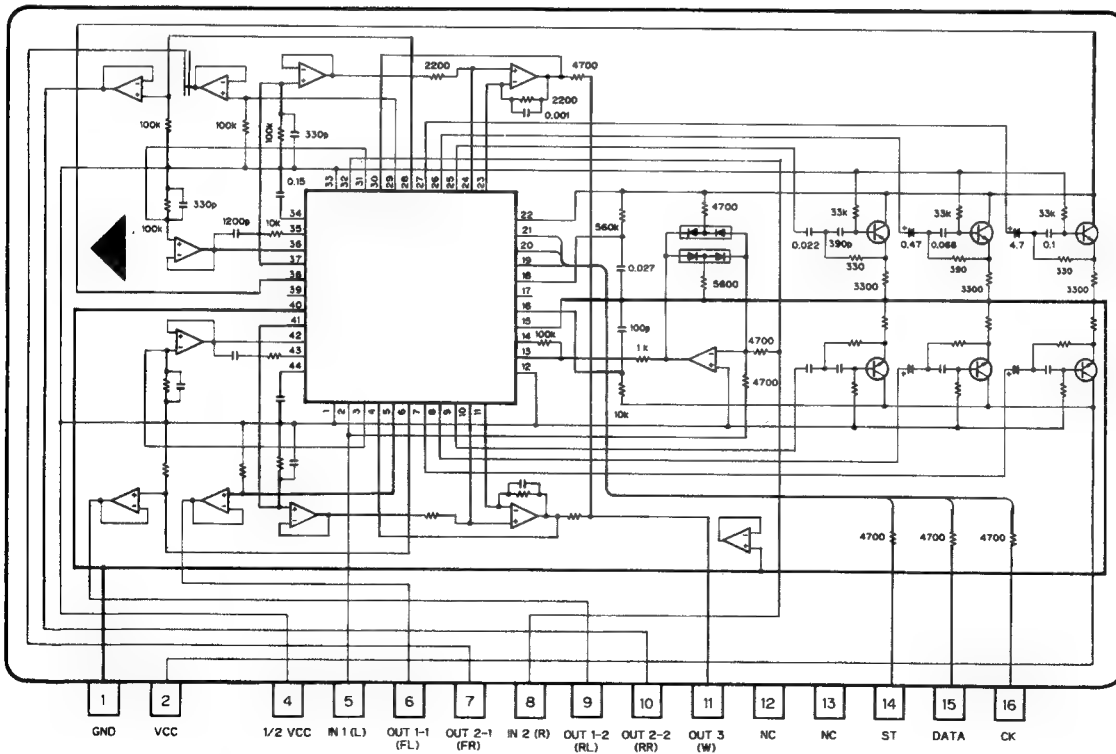
KHA805A



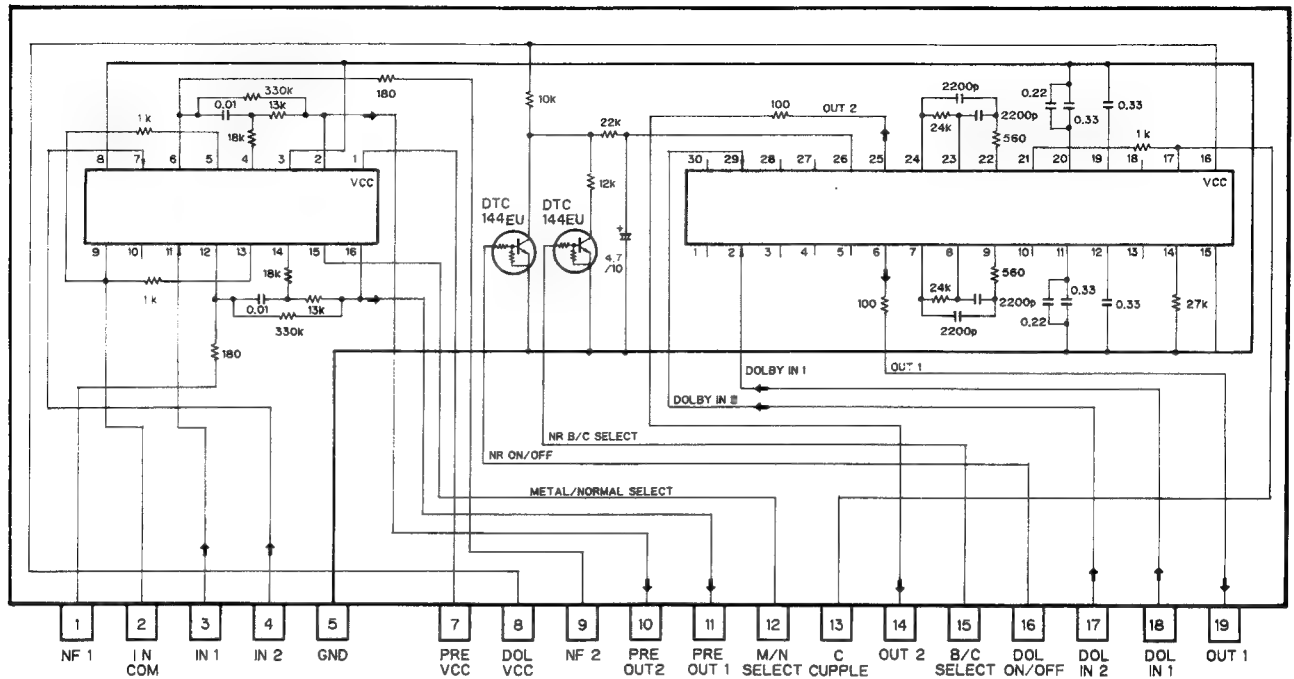
KHA510



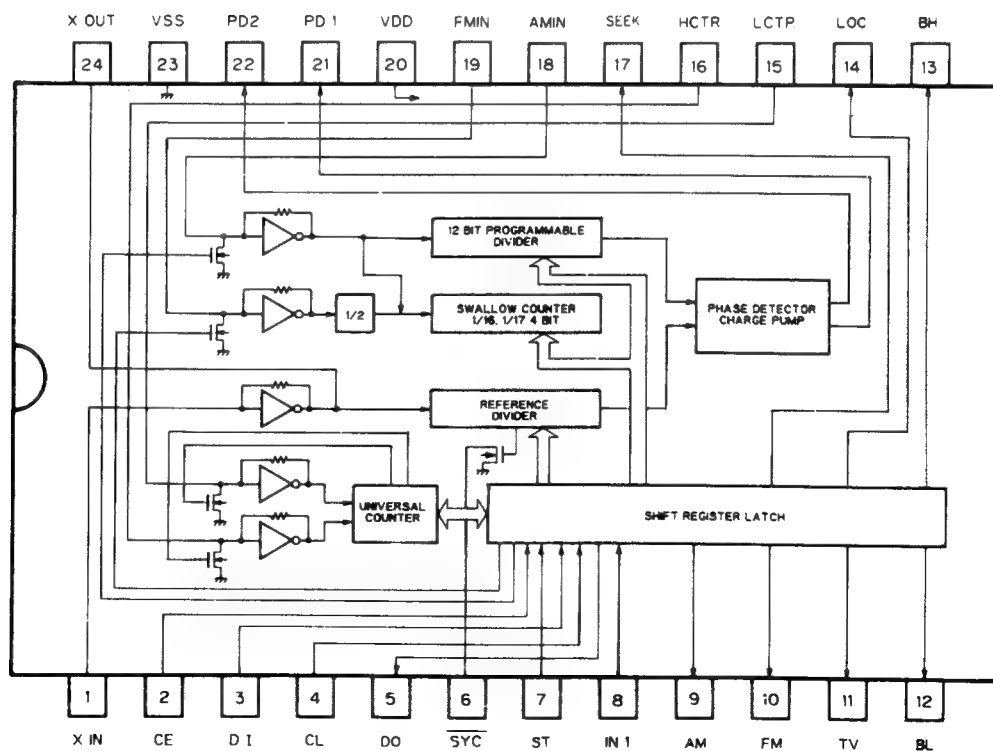
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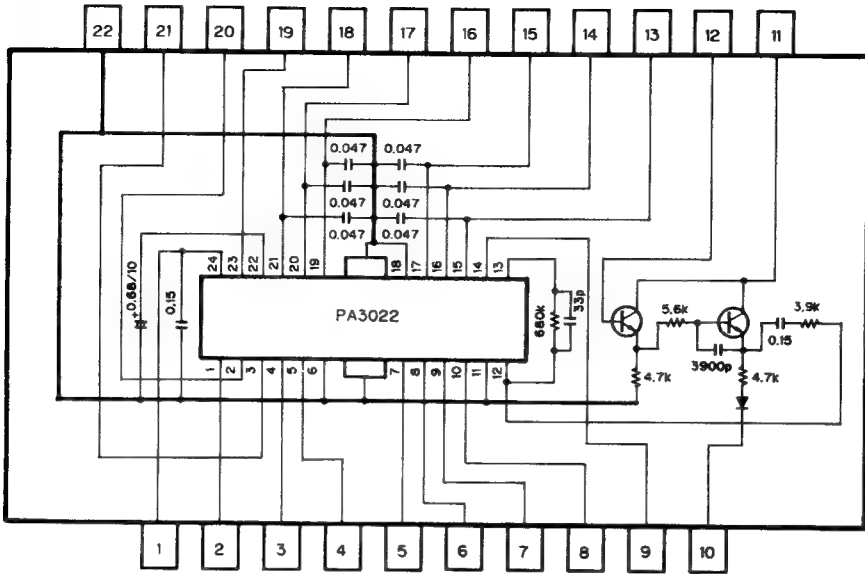
CWV1017



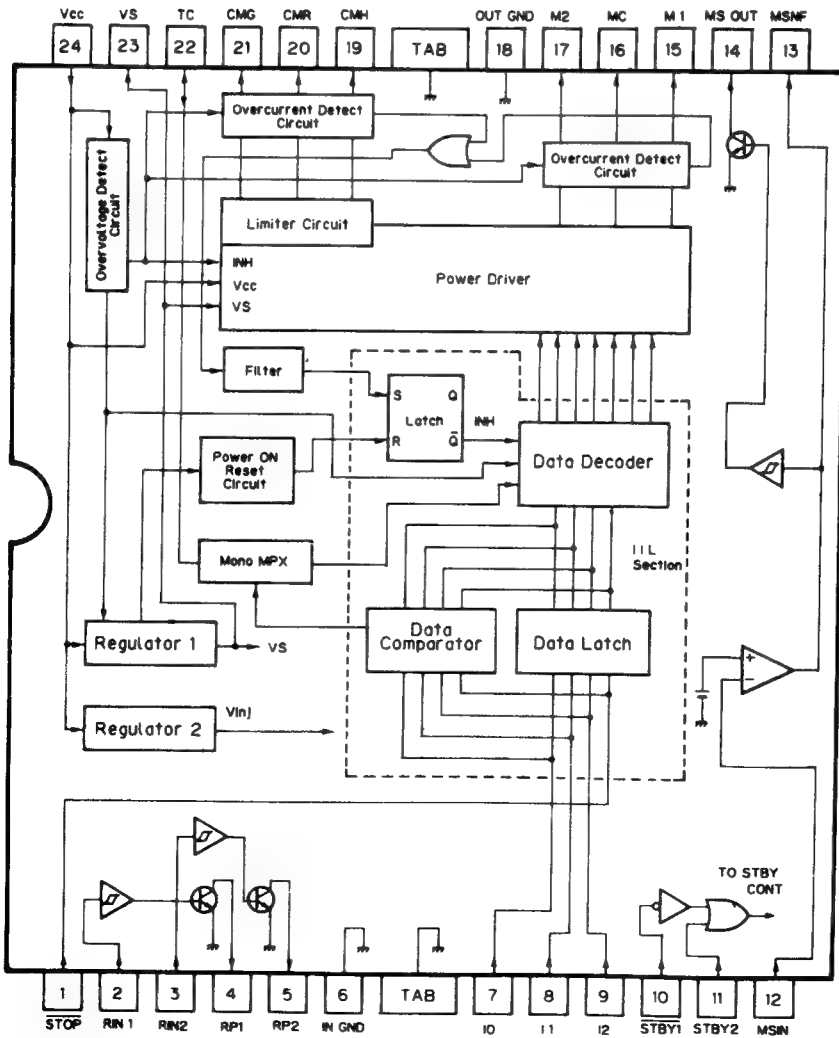
LC7218HS



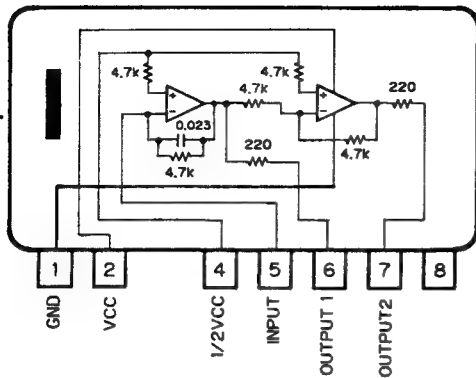
CWV1178



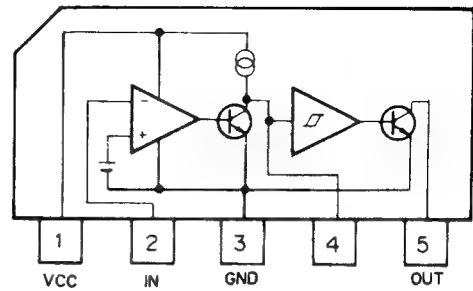
PA3022



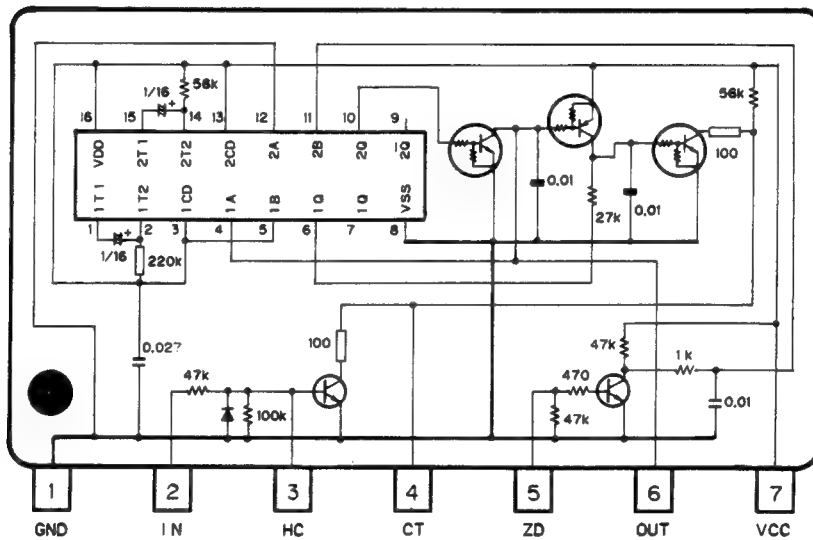
KHA233A



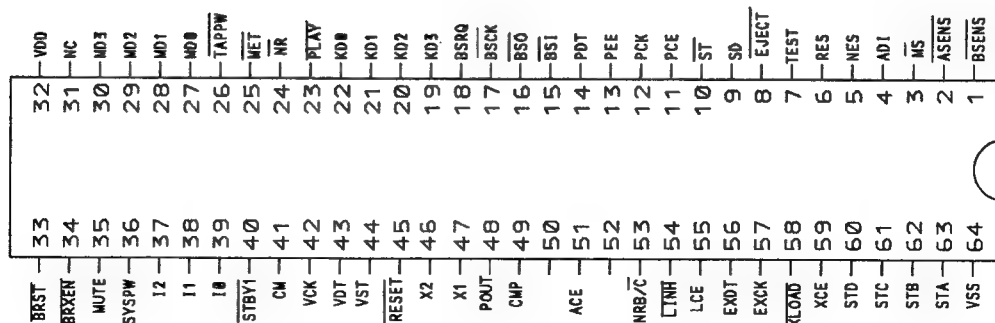
M51957BL



CWV1001



* PD4243



IC's marked by * are MOS type.
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

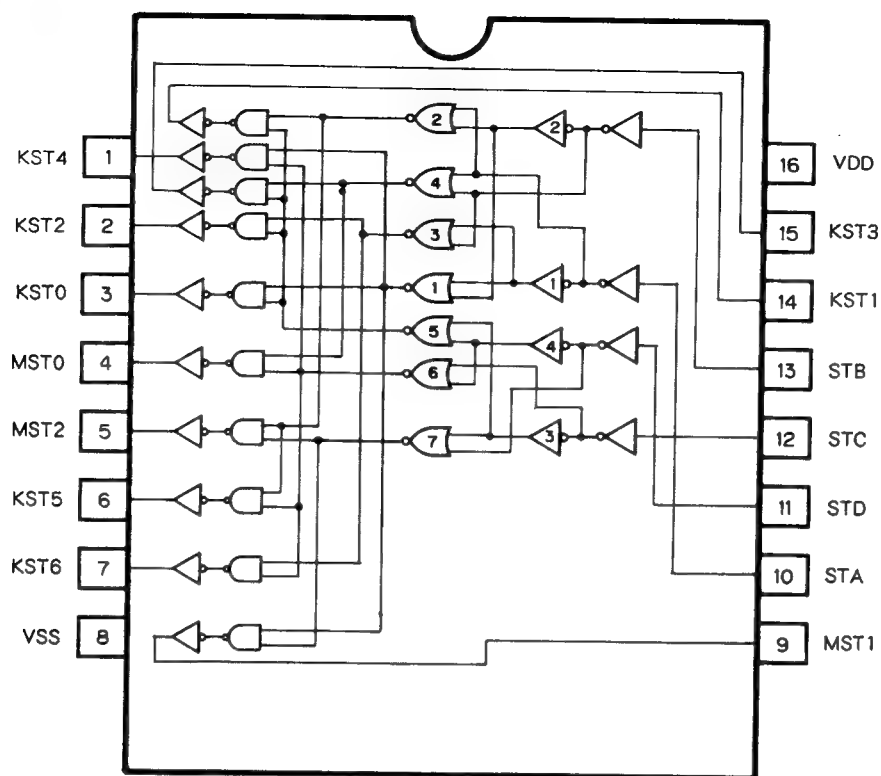
● Pin Function (PD4243)

Pin No.	Pin Name	I/O	Output Format	Function and Operation
1	BSENS	Input		Back up power sense input pin
2	ASENS	Input		ACC power sense input pin
3	MS	Input		Tape MS signal input pin
4	ADI	Input		Data input pin from A/D converter(1C607)
5	NES	Input		Reel pulse input pin for forward side of the tape
6	RES	Input		Reel pulse input pin for reverse side of the tape
7	TEST	Input		Not used
8	EJECT	Input		Eject signal input pin
9	SD	Input		SD input pin
10	ST	Input		Stereo input pin
11	PCE	Output	C	PLL IC(1C501) chip enable output pin
12	PCK	Output	C	PLL IC(1C501) clock out put pin
13	PEE	Output	C	Beep tone output pin
14	PDT	Output	C	PLL IC(1C501) data out put pin
15	BST	Input		Bus communication serial data input pin
16	BSO	Output	C	Bus communication serial data output pin
17	BSCK	Input/ Output	C	Bus communication serial clock input/output pin
18	BSRQ	Input		Bus communication service request input pin
19 22	KD3 KDO	Input		Key data input pins
23	PLAY	Output	N	Tape MS filter select output pin
24	NR	Output	N	Dolby NR ON/OFF output pin
25	MET	Output	N	Tape METAL ON/OFF output pin
26	TAPPW	Output	N	Tape power ON/OFF output pin
27 30	MDO MD3	Input		Mechanism switch sense input pins
31	NC			
32	VDD			Device power supply terminal
33	BRST	Output	C	Bus communication reset output pin
34	BRXEN	Input/ Output	C	Bus communication reception enable input pin

Pin No.	Pin Name	I/O	Output Format	Function and Operation
35	MUTE	Output	C	System mute output pin
36	SYSPW	Output	C	System power ON/OFF control output pin
37 38 39	12 11 10	Output	C	Data output pins for mechanism driver(IC602)
40	STBYT	Output	C	Standby output pin for mechanism driver(IC602)
41	CM	Output	C	Capstan motor ON/OFF control output pin
42	VCK	Output	C	Clock output pin for electronic volume(IC453)
43	VDT	Output	C	Data output pin for electronic volume(IC453)
44	VST	Output	C	Strobe pulse output pin for electronic volume(IC453)
45	RESET	Input		Reset input pin
46 47	X2 X1			Crystal oscillator connection pins
48	POUT	Output	C	Pulse output pin for watch dog timer(IC606)
49	CMP	Output	C	CD compression ON/OFF output pin
50	ANTI LED	Output	C	Not used
51	ACE	Output	C	Chip enable output pin for A/D converter(IC607)
52	ECE	Output	C	Not used
53	NRB/C	Output	C	Dolby NR B/C selector output pin
54	LINH	Output	C	Inhibit output pin for LCD driver(IC901)
55	LCE	Output	C	Chip enable output pin for LCD driver(IC901)
56	EXDT	Output	C	Data output pin for external IC
57	EXCK	Output	C	Clock output pin for external IC
58	XLOAD	Output	C	Data load output pin for expander(IC851)
59	XCE	Output	C	Chip enable pin for expander(IC851)
60 63	STD STA	Output	C	Mechanism switch, strobe output pins
64	VSS			GND terminal

Output format	Meaning
N	Nchannel open drain
C	C-MOS

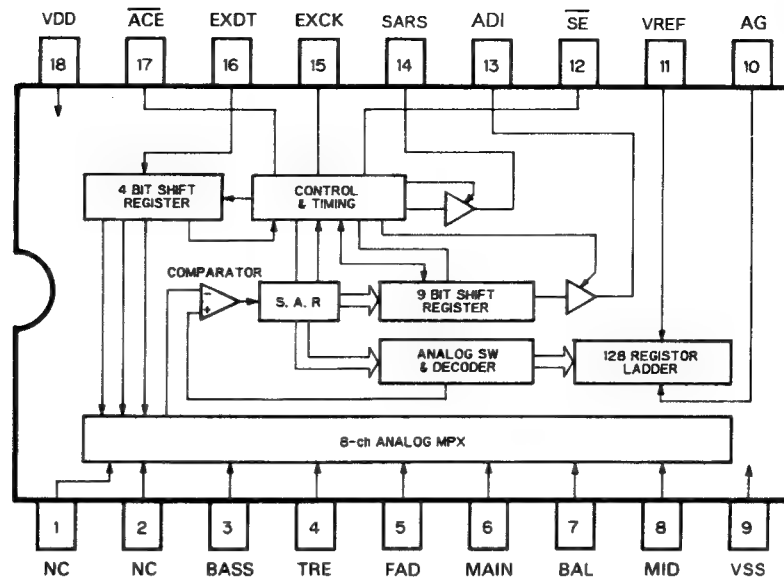
TC4028BP



● Pin Function (TC4028BP)

Pin No.	Pin Name	I/O	Output Format	Function and Operation
1	KST4	Output	C	Key matrix strobe output pins
2	KST2			
3	KST0			
6	KST5			
7	KST6			
14	KST1			
15	KST3			
8	VSS			GND terminal
4	MST0	Output	C	Mechanism switch, strobe output pins
5	MST2			
9	MST1			
10	STA	Input		Data input pins
11	STD			
12	STC			
13	STB			
16	VDD			Device power supply terminal

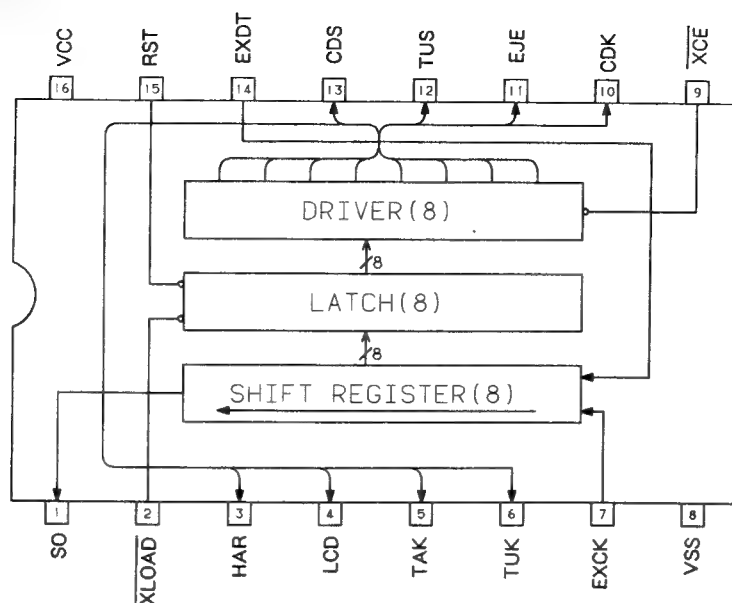
TC35095P



● Pin Function (TC35095P)

Pin No.	Pin Name	I/O	Output Format	Function and Operation
1	N. C			Not used
2	N. C			Not used
3	BASS	Input		BASS level input terminal
4	TRE	Input		TREBLE level input terminal
5	FAD	Input		FADER level input terminal
6	MAIN	Input		VOLUME level input terminal
7	BAL	Input		BALANCE level input terminal
8	MID	Input		MIDDLE level input terminal
9	VSS			GND terminal
10	AG			Analog GND terminal
11	VREF	Input		Reference voltage input pin
12	SE	Input		Not used
13	ADI	Output	C	Serial data output pin
14	SARS	Output	C	Not used
15	EXCK	Input		Serial clock input pin
16	EXDT	Input		Data input pin
17	ACE	Input		Chip enable input pin
18	VDD			Device power supply terminal

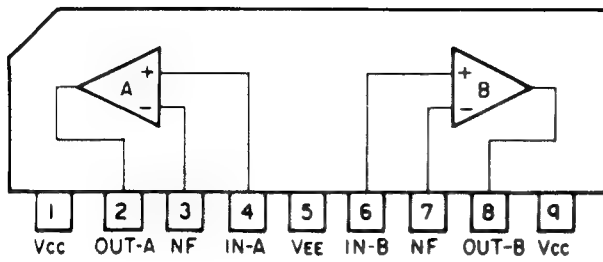
MB88306P



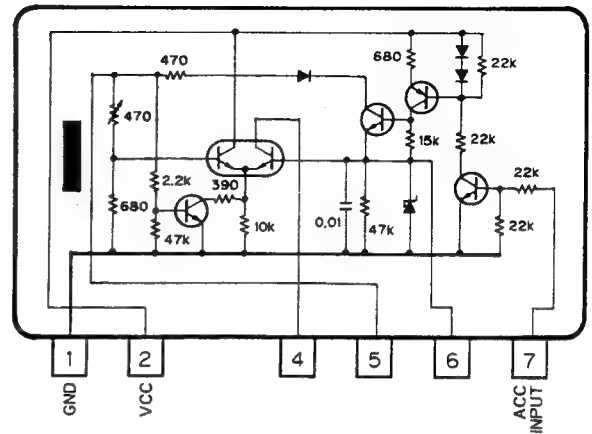
● Pin Function (MB88306P)

Pin No.	Pin Name	I/O	Output Format	Function and Operation
1	SO	Output	C	Serial data output pin
2	XLOAD	Input		Data load input pin
3	HAR	Output	C	Not used
4	LCD	Output	C	Lamp of LCD ON/OFF control output pin
5	TAK	Output	C	Lamp of tape key ON/OFF control output pin
6	TUK	Output	C	Lamp of tuner key ON/OFF control output pin
7	EXCK	Input		Clock input pin
8	VSS			GND terminal
9	XCE	Input		Chip enable input pin
10	CDK	Output	C	Lamp of CD key ON/OFF control output pin
11	EJE	Output	C	
12	TUS	Output	C	Lamp of tuner system ON/OFF control output pin
13	CDS	Output	C	Lamp of CD system ON/OFF control output pin
14	EXDT	Input	C	Serial data output pin
15	RST	Input		Reset input pin
16	VDD			Device power supply terminal

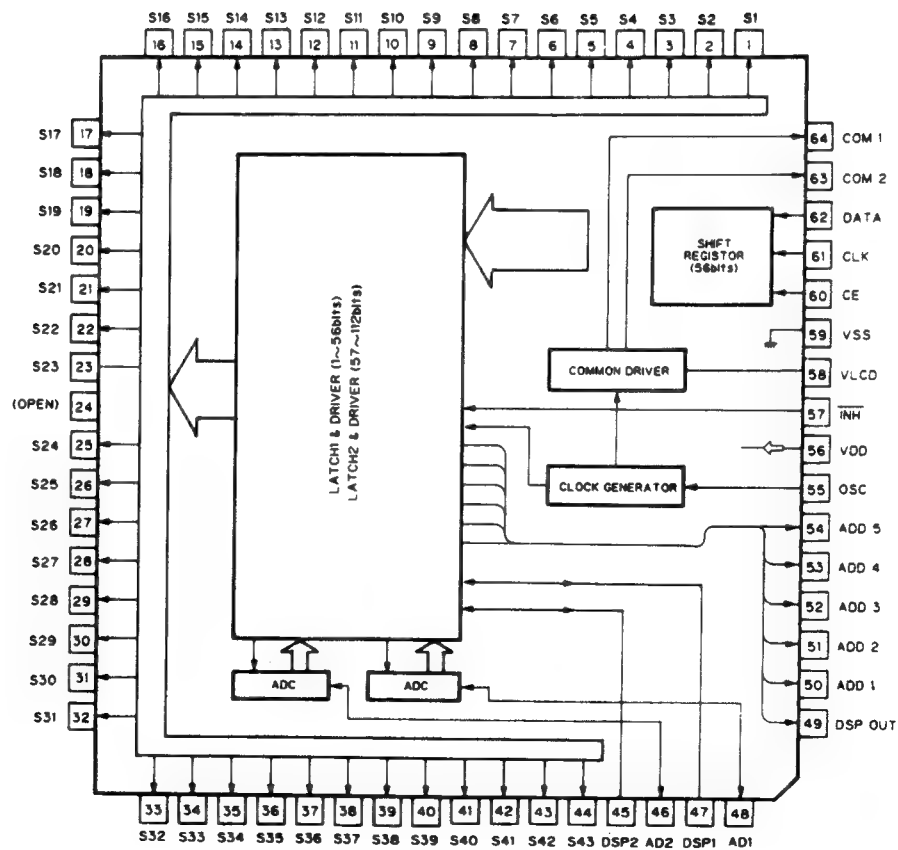
NJM2068SD



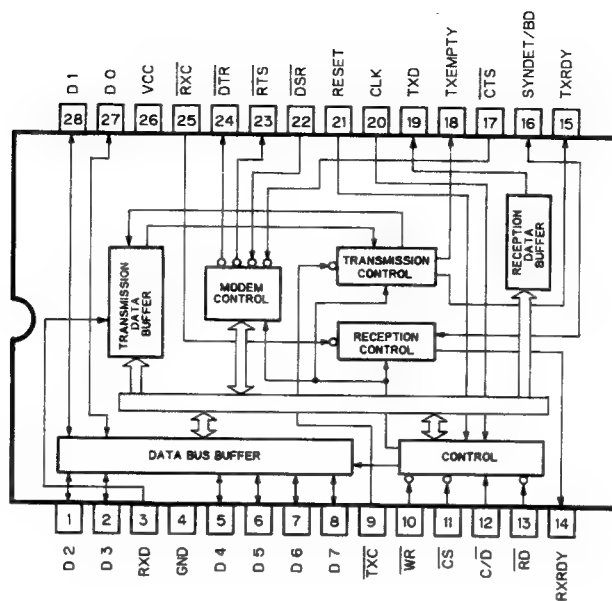
KHA241



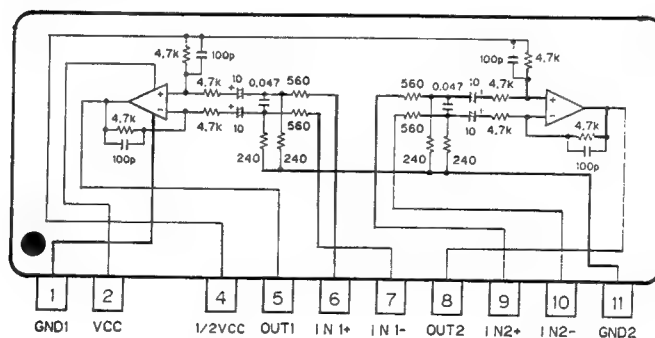
LC7582ASP

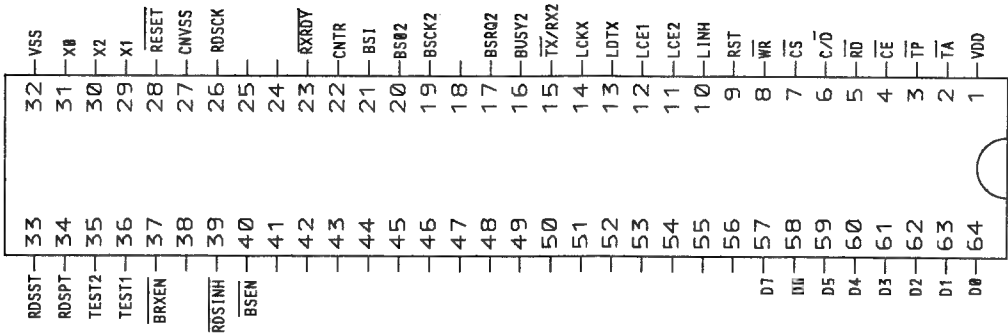
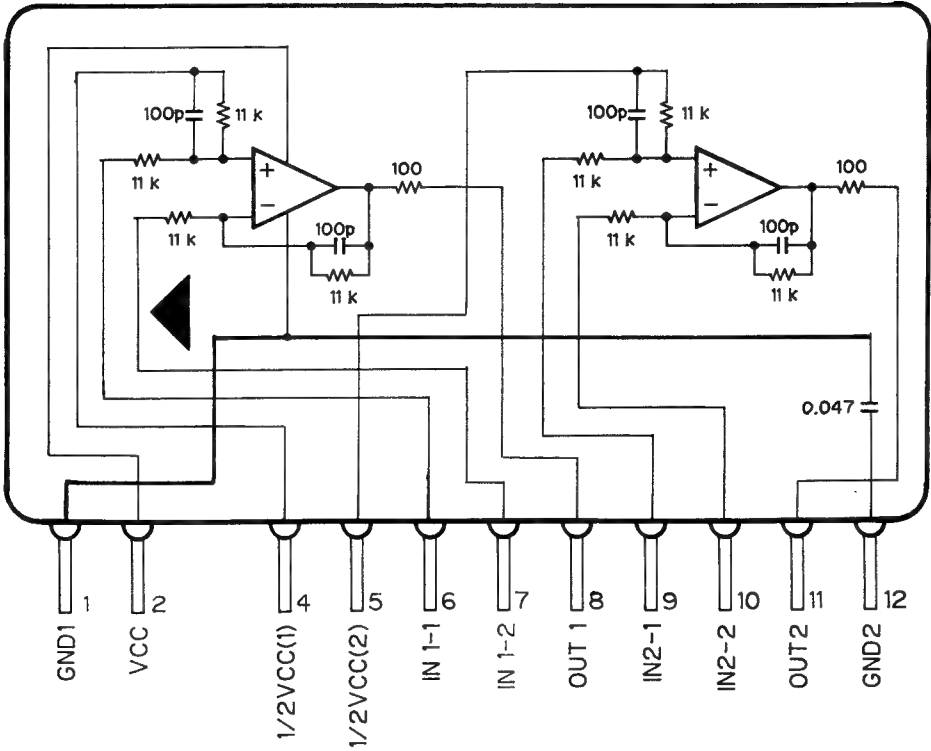
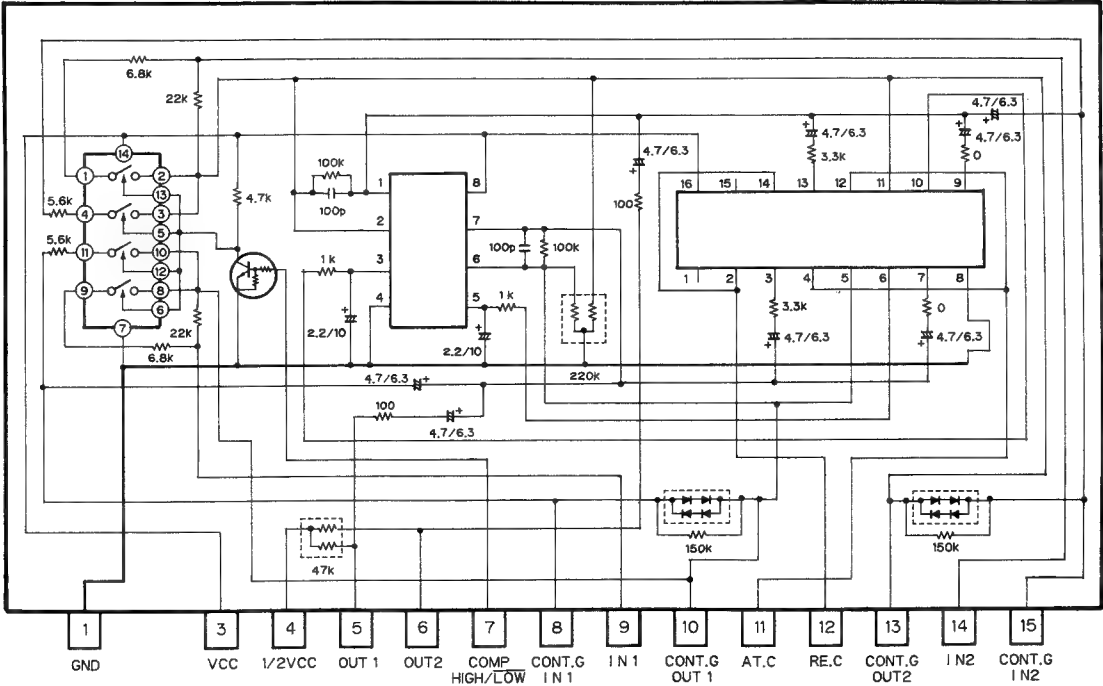


GGF-910



KHA232A





● Pin Function (PD5137)

Pin No.	Pin Name	I/O	Output Format	Function and Operation
1	VDD			Device power supply terminal
2	TA	Output	C	Not used
3	TP	Output	C	Not used
4	CE			Not used
5	RD	Output	C	Read signal output pin for IC352
6	C/D	Output	C	Control/Data switching signal output pin for IC352
7	CS	Output	C	Chip select signal output pin for IC352
8	WR	Output	C	Write signal output pin for IC352
9	RST	Output	C	Reset signal output pin for IC352
10	LINH	Output	C	No used
11	LCE2	Output	C	No used
12	LCE1	Output	C	No used
13	LDTX	Output	C	No used
14	LCKX	Output	C	No used

Pin No.	Pin Name	I/O	Output Format	Function and Operation
15	TX/RX2	Output	C	Bus communication TX(Transmission)/RX(Reception) control output pin
16	BUSY2	Output	C	Bus communication busy output pin
17	BSRQ2	Output	C	Bus communication service request output pin
18	NC			
19	BSCK2	Input/Output	C	Bus communication serial clock input/output pin f=19.2kHz
20	BSO2	Output	C	Bus communication serial data output pin
21	BSI	Input		Bus communication serial data input pin
22	CNTR	Output	C	Communication sampling clock output pin for IC352 f=76.8kHz
23	RXRDY	Input		Reception request input pin
24	NC			
25	NC			
26	RDSCK	Input		Not used
27	CNVSS	Input		GND
28	RESET	Input		Reset input pin
29	X1	Input	C	Crystal oscillator connection pins
30	X2	Output		
31	X0	Output	C	Clock output pin for IC352 f=1,228,800Hz
32	VSS			GND
33	RDSST	Input		Not used
34	RSDST	Input		Not used
35	TEST2	Input		Not used
36	TEST1	Input		
37	BRXEN	Input		Bus communication reception enable input pin
38	NC			
39	RDSINH	Input		Not used
40	BSEN	Input		Back up power sense input pin
41	NC			
56				
57	D7	Input/Output		Data input/output pins for IC352
64	D0			

● LCD (CAW1080)

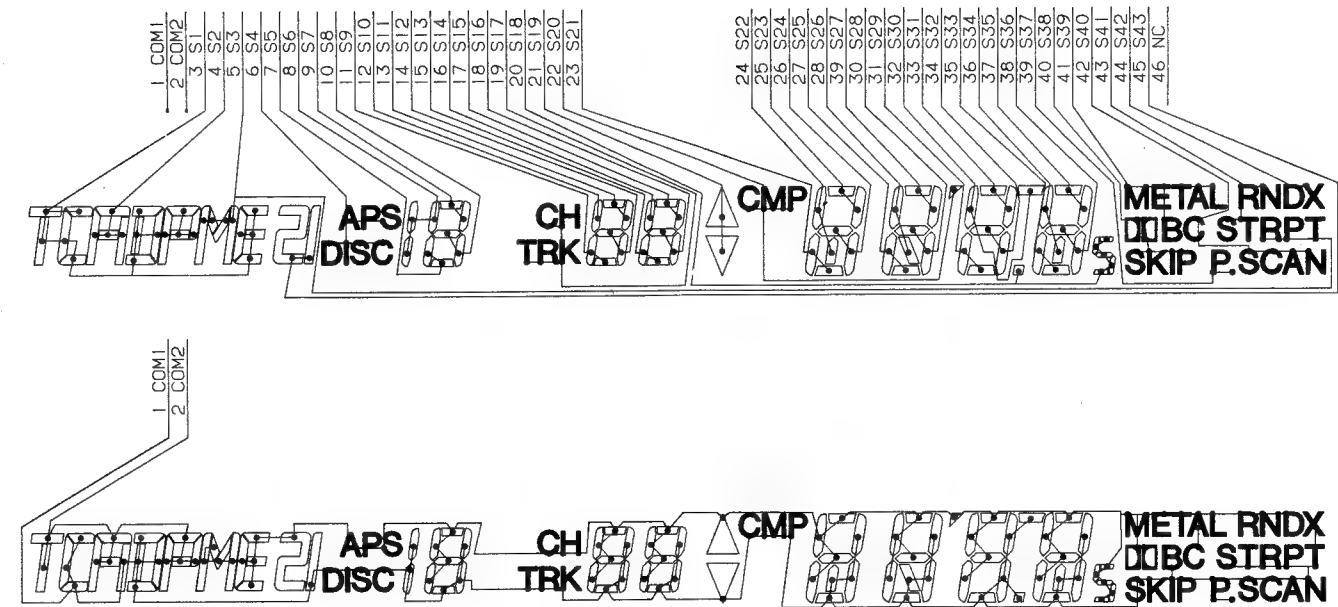


Fig. 16

● FM Front End (CWB1059)

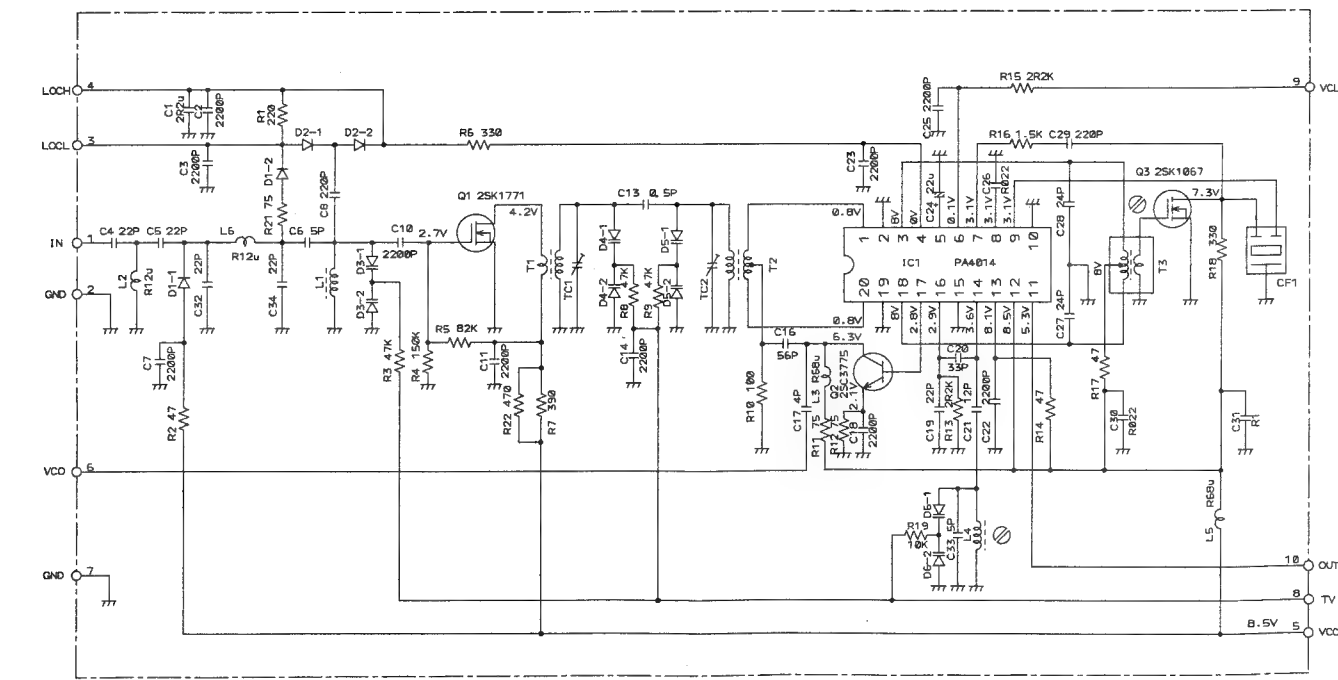


Fig. 17

7. CONNECTION DIAGRAM

CONTROL UNIT

IC, Q IC301

ADJ. VR302

VR301

Q708

Q707

Q706

IC602

IC606 IC607

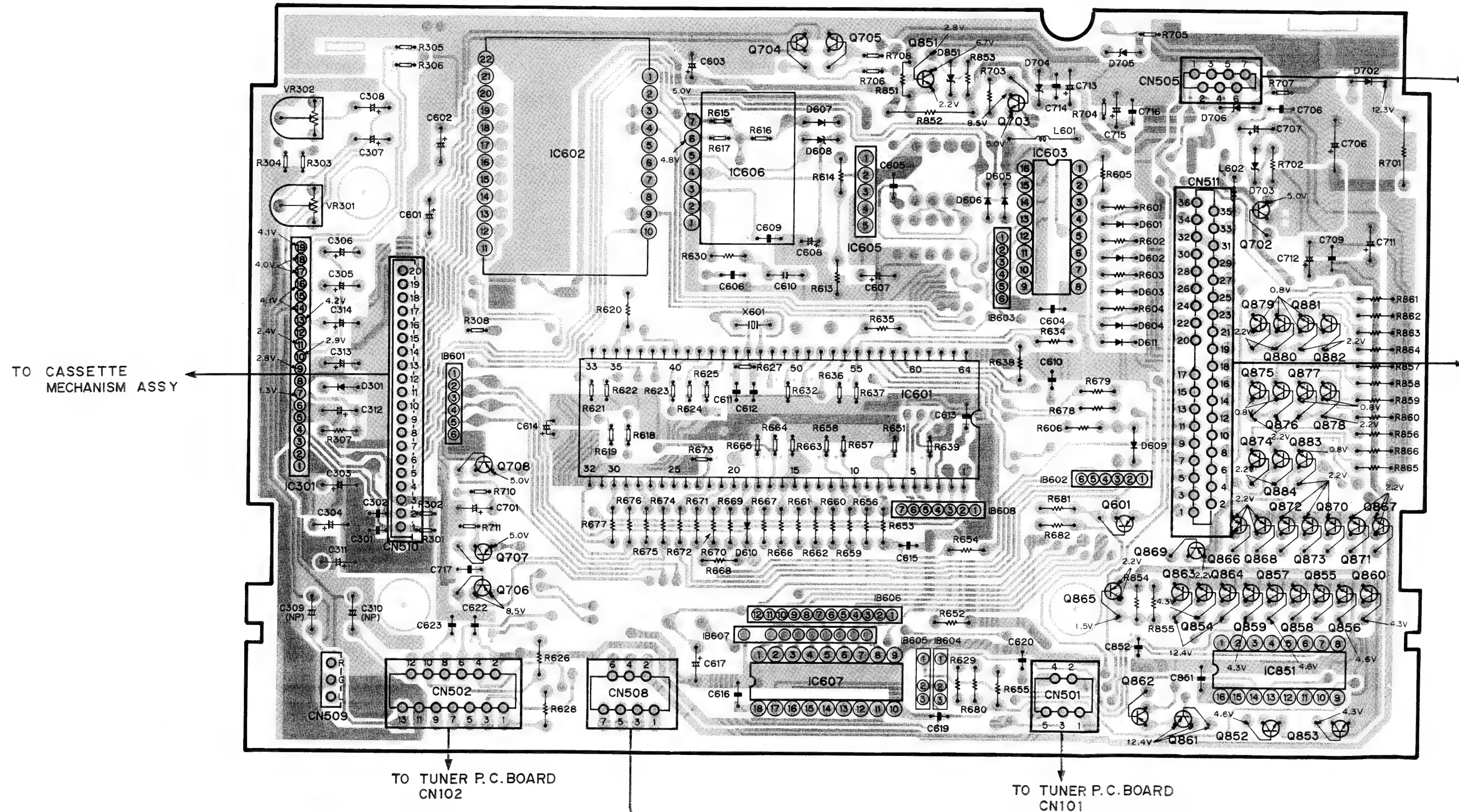
IC601 Q704 Q705 IC605

Q851

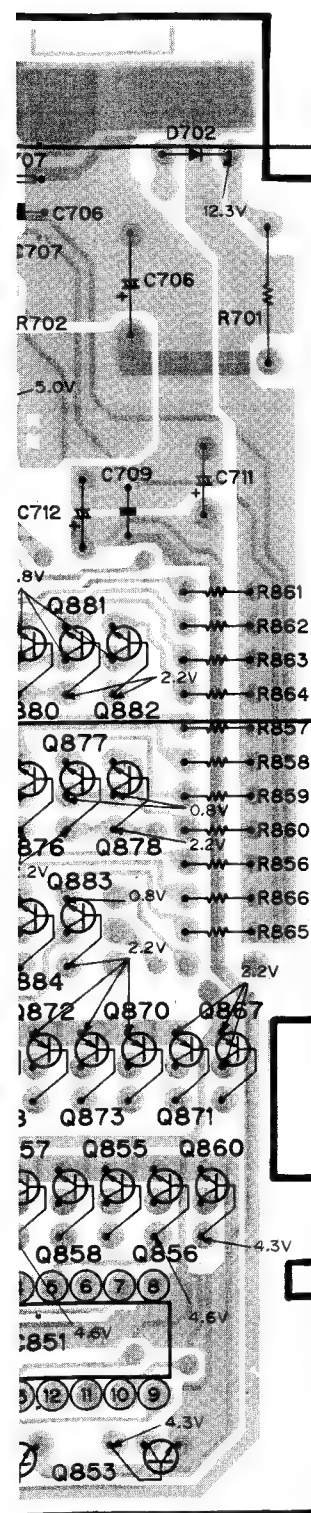
Q703

IC603

Q702 Q879 Q880 Q881 Q882
 Q869 Q866 Q875 Q876 Q877 Q878 Q867
 Q601 Q854 Q864 Q874 Q884 Q883 Q870 Q871
 Q865 Q863 Q868 Q872 Q873 Q855 Q860
 Q862 Q861 Q852 Q859 Q857 Q858 Q853 Q856

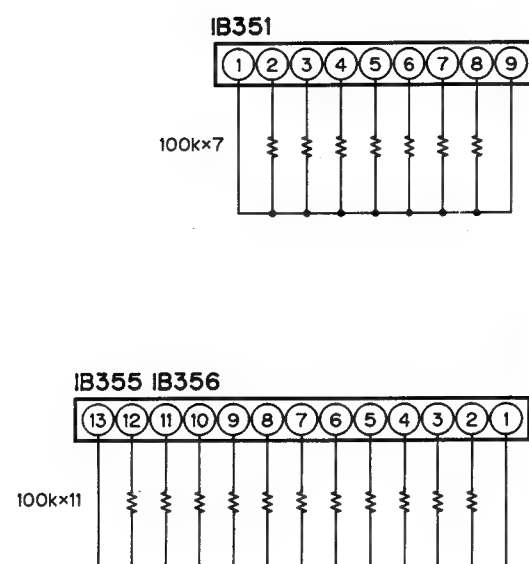


380 Q881 Q882
 376 Q877 Q878 Q867
 384 Q883 Q870 Q871
 372 Q873 Q855 Q860
 357 Q858 Q853 Q856



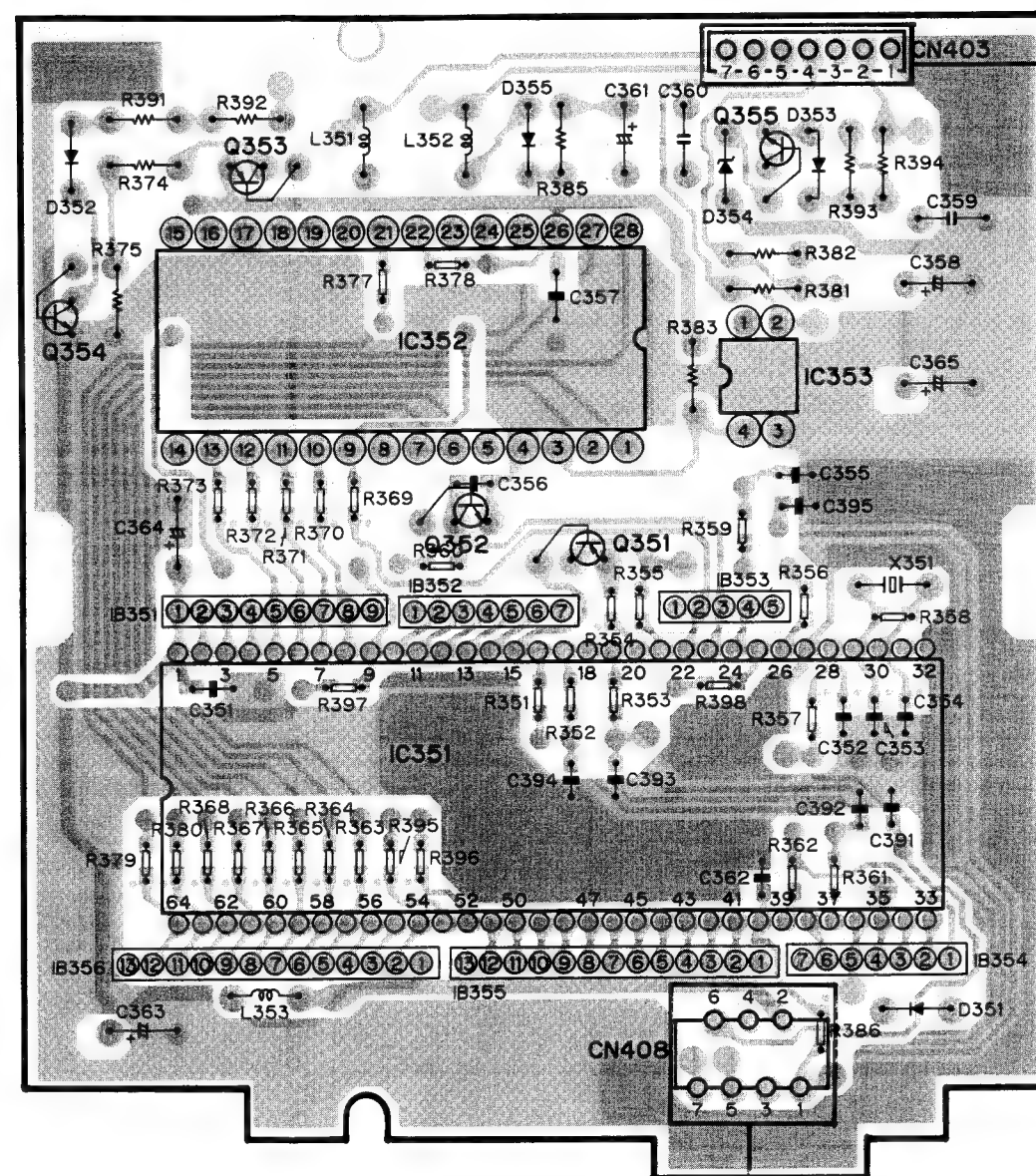
TO AUDIO P.C. BOARD
 CN205

TO KEY BOARD



COMMUNICATION UNIT

IC, Q Q354 Q353 IC352 Q352 Q351 IC351 IC353 Q355



TO TUNER P.C. BOARD
 CN103

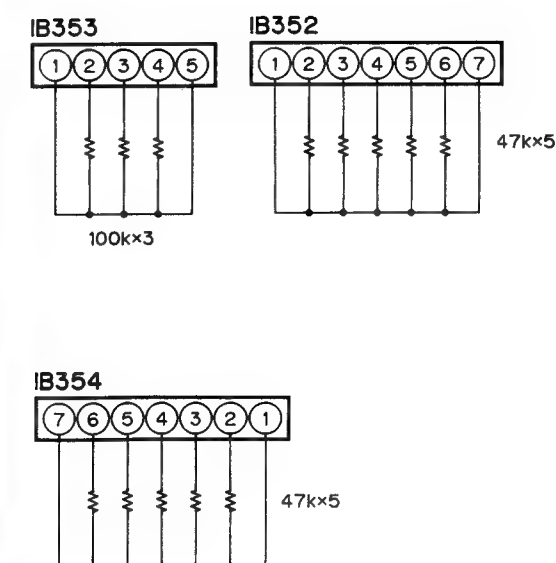


Fig. 18

4



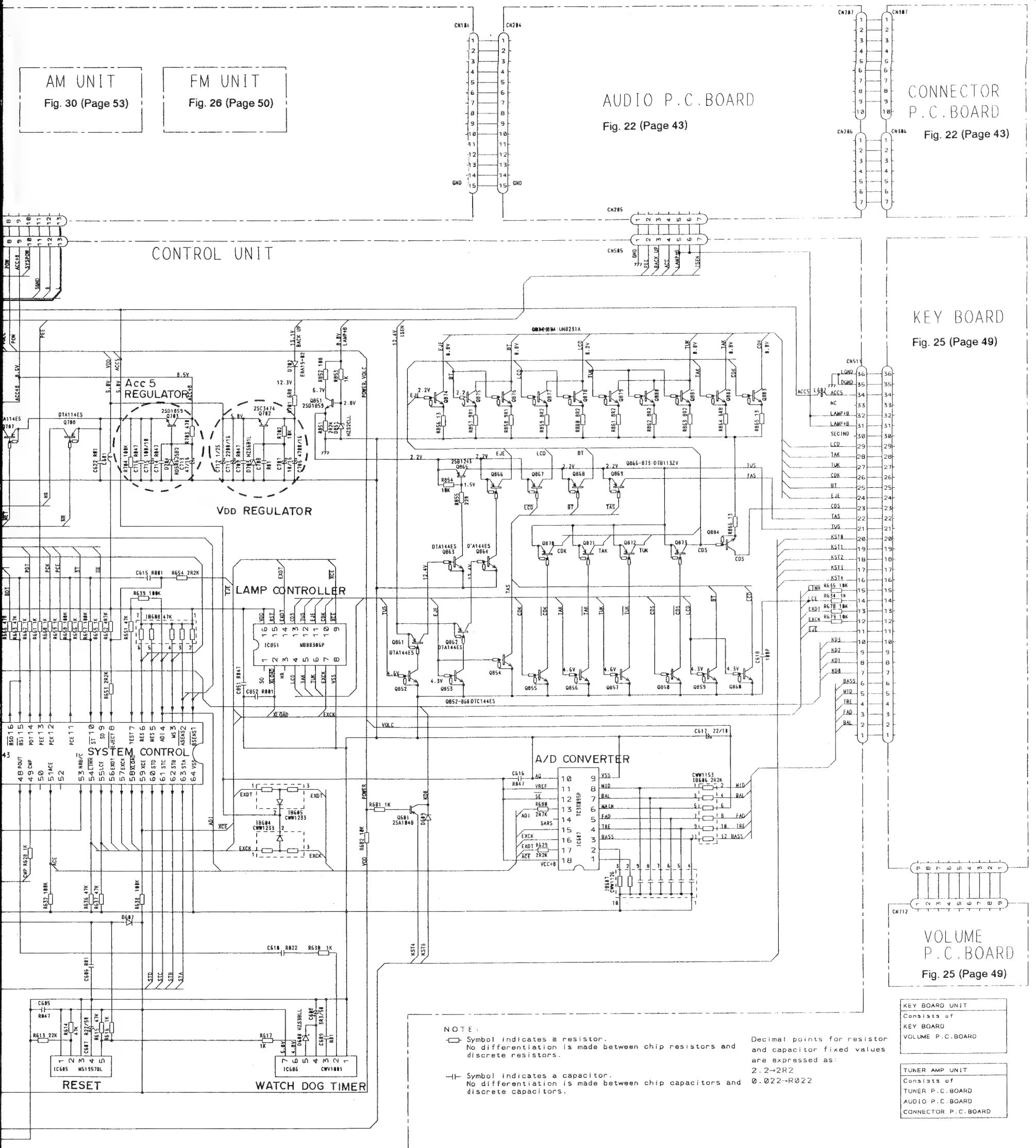
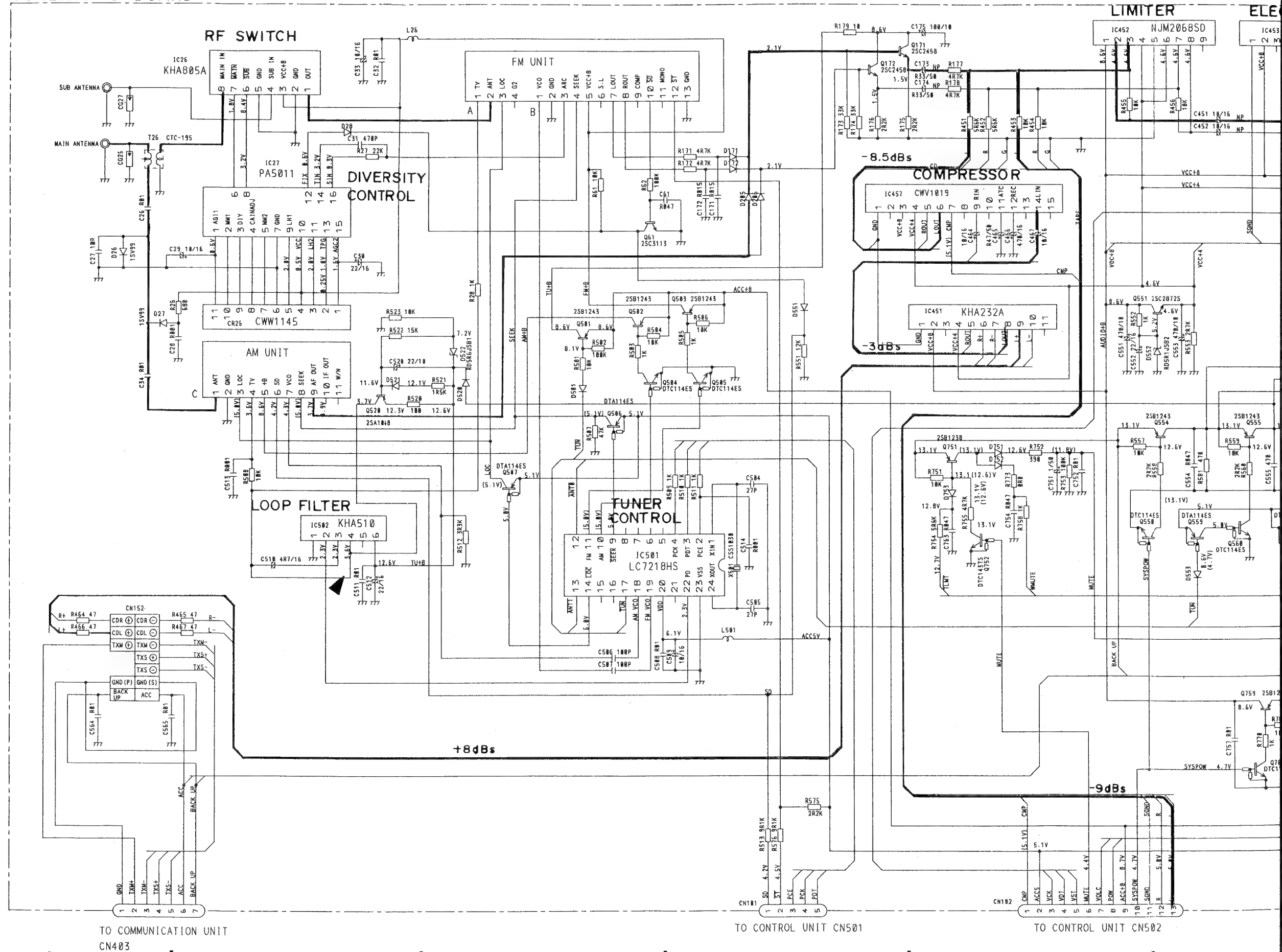


Fig. 19

9.1 TUNER P.C. BOARD



TO COMMUNICATION UNIT
CN403

IC27	IC26
IC502	Q520



9.2 AUDIO P.C. BOARD AND CONNECTOR P.C. BOARD

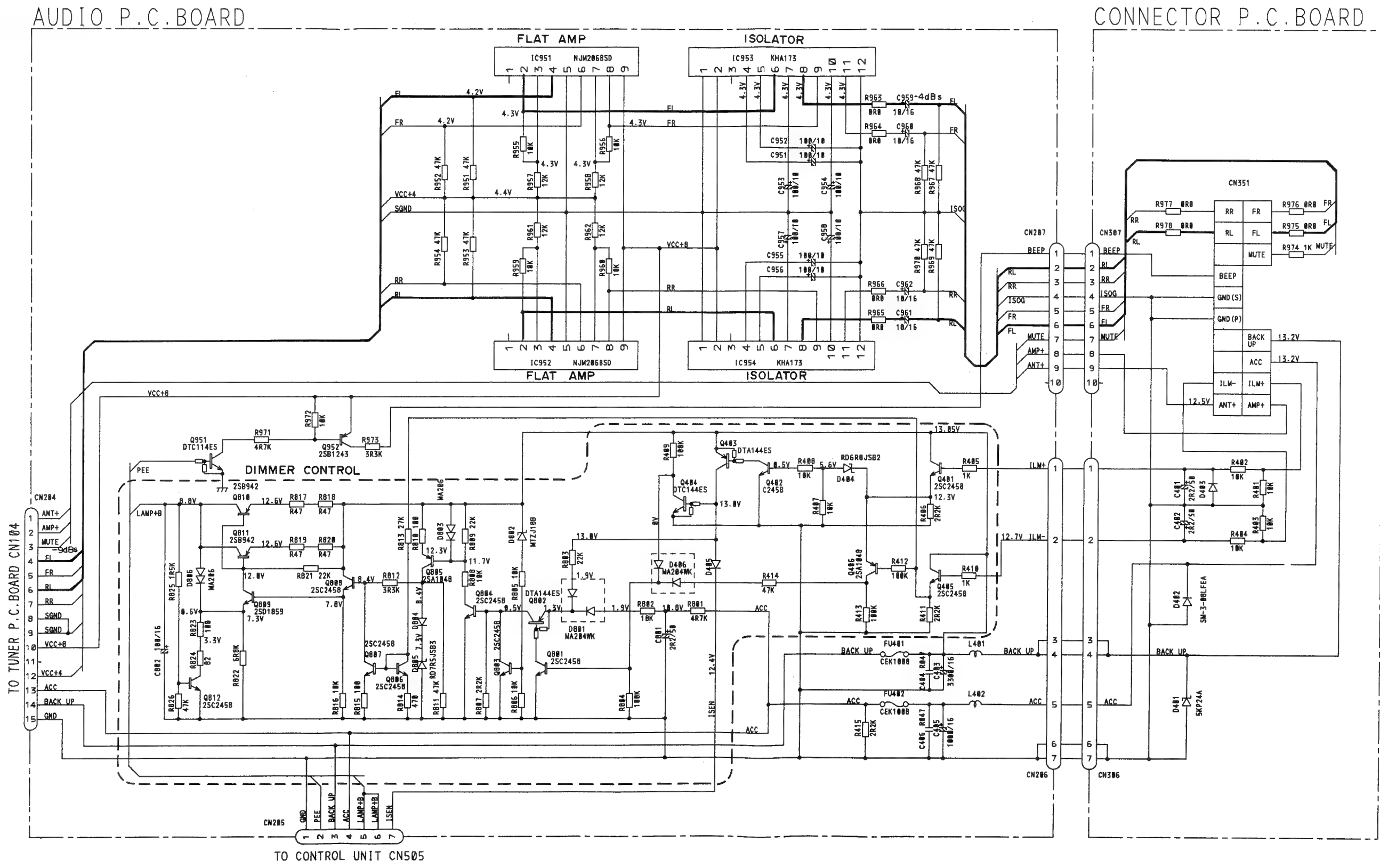


Fig. 22

AUDIO P.C. BOARD

IC. Q IC952 IC951 IC953 IC954 Q951 Q952

Q809 Q811 Q812
Q804 Q808 Q805 Q404
Q802 Q807 Q803 Q402
Q406 Q810 Q405 Q806 Q801 Q403 Q401

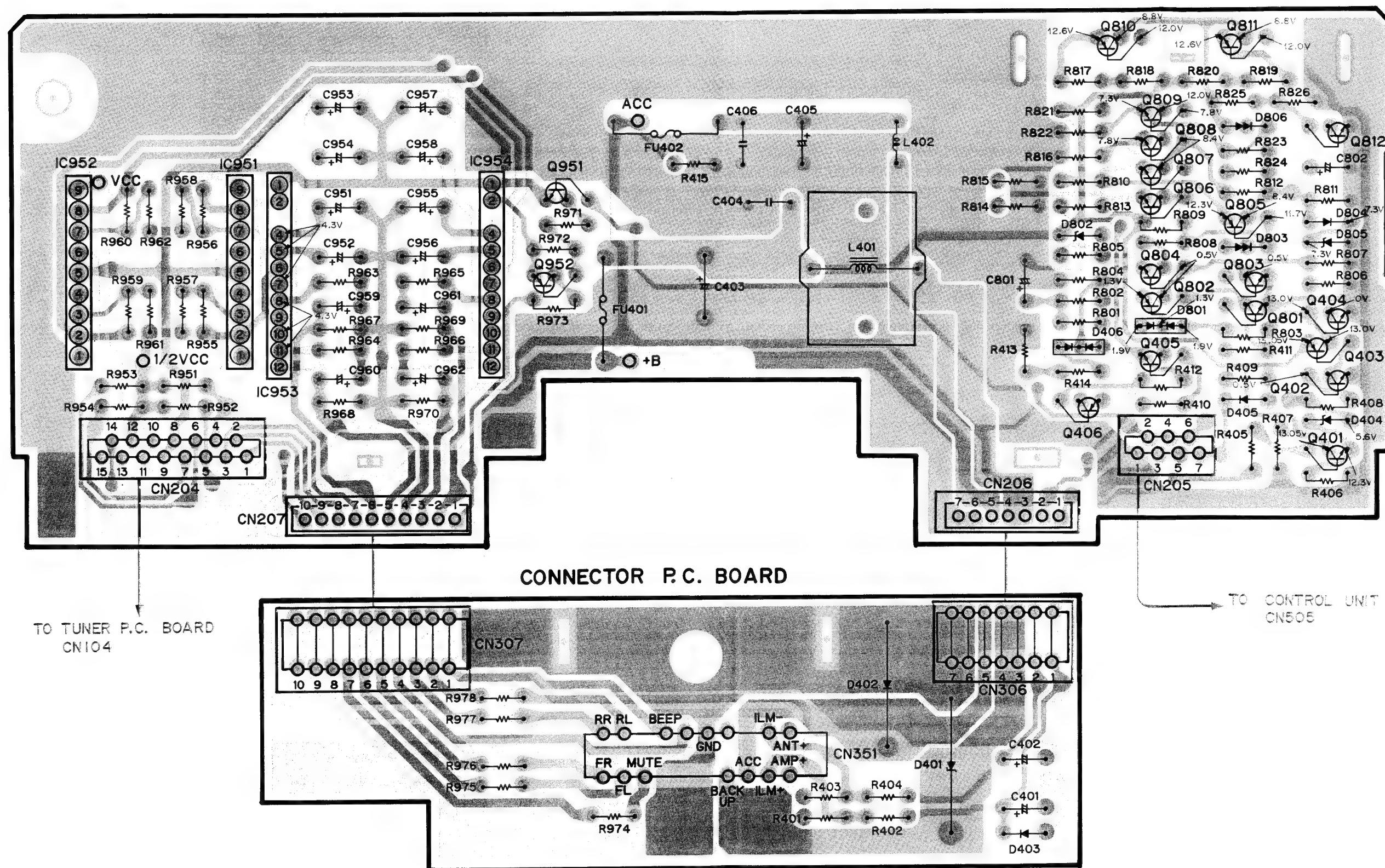


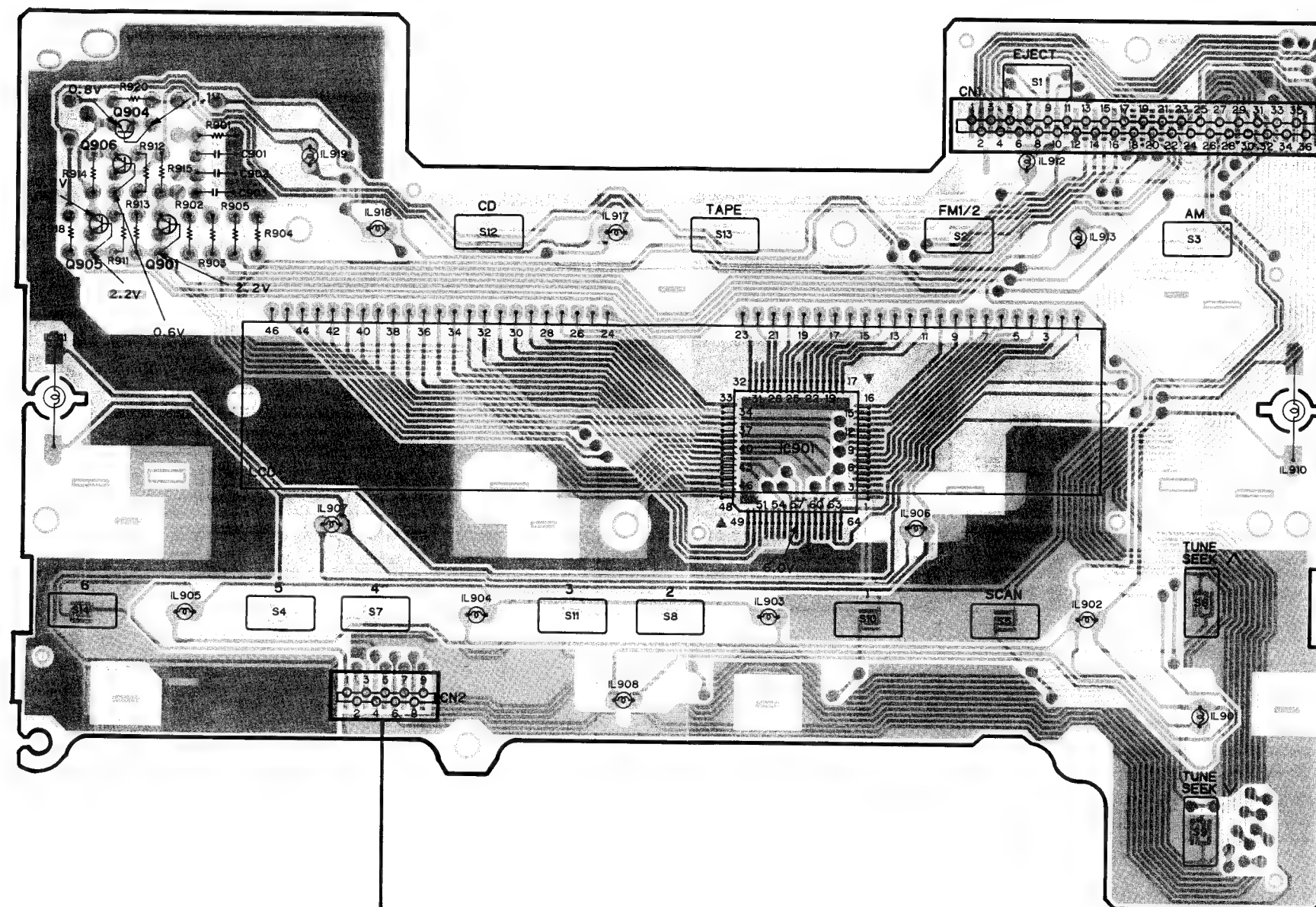
Fig. 23

9.3 KEY BOARD AND VOLUME P.C. BOARD

KEY BOARD

Q906
IC, Q Q905 Q904 Q901

IC901



VOLUME P.C. BOARD

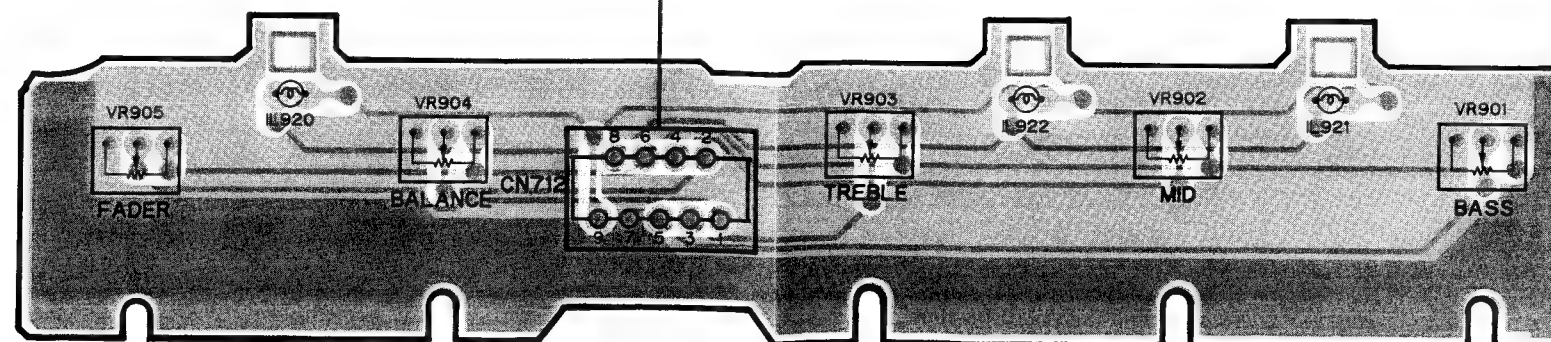


Fig. 24

9.4 FM UNIT

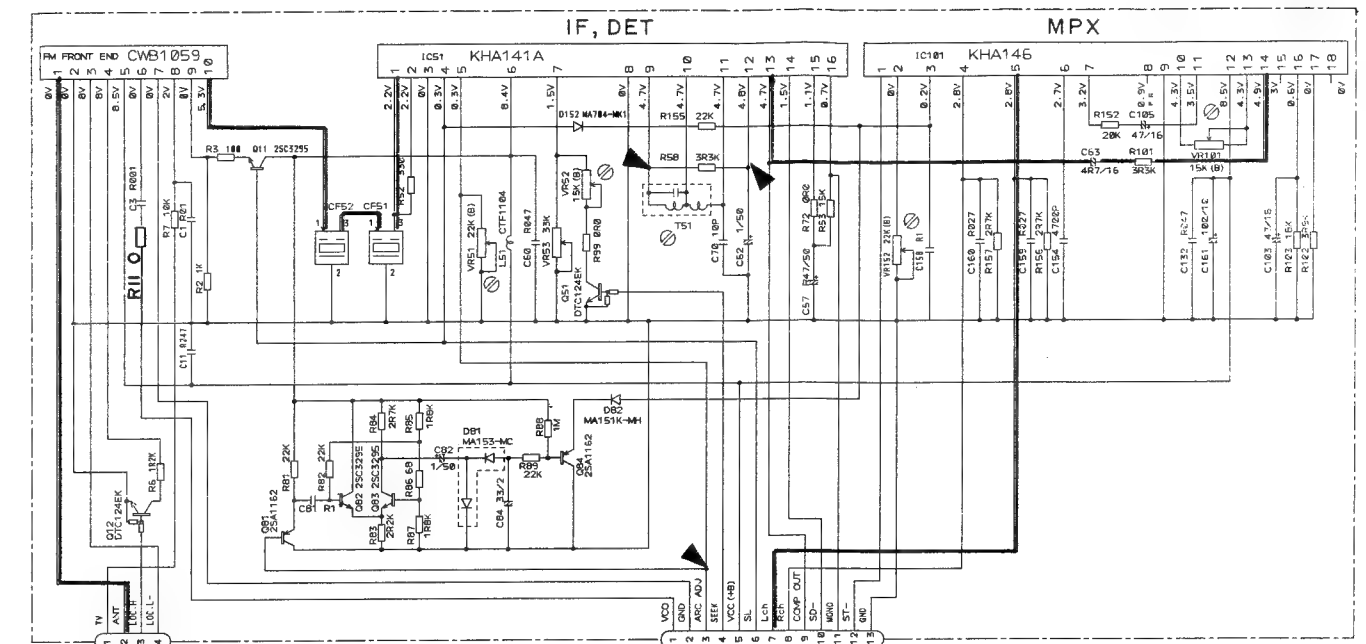


Fig. 26

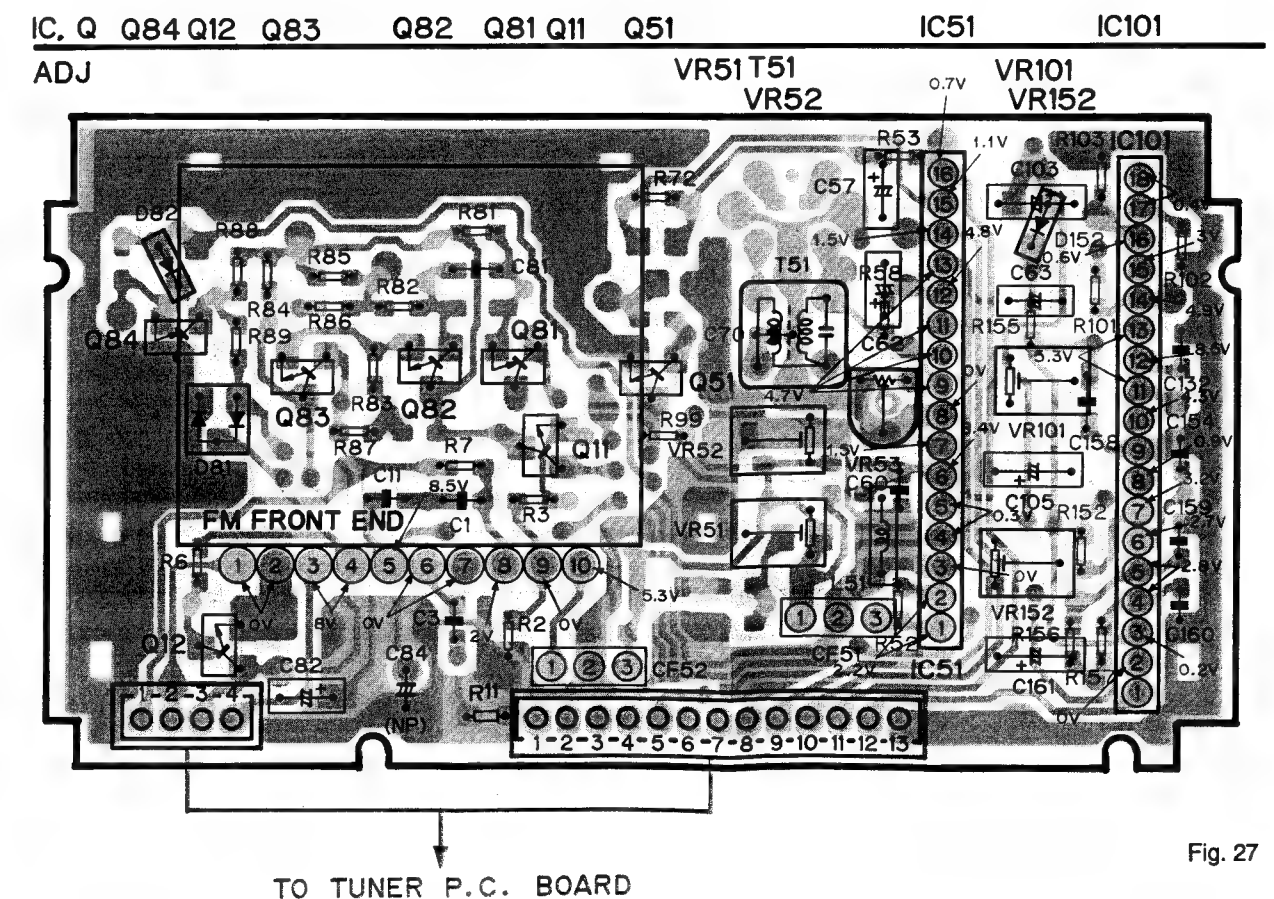


Fig. 27

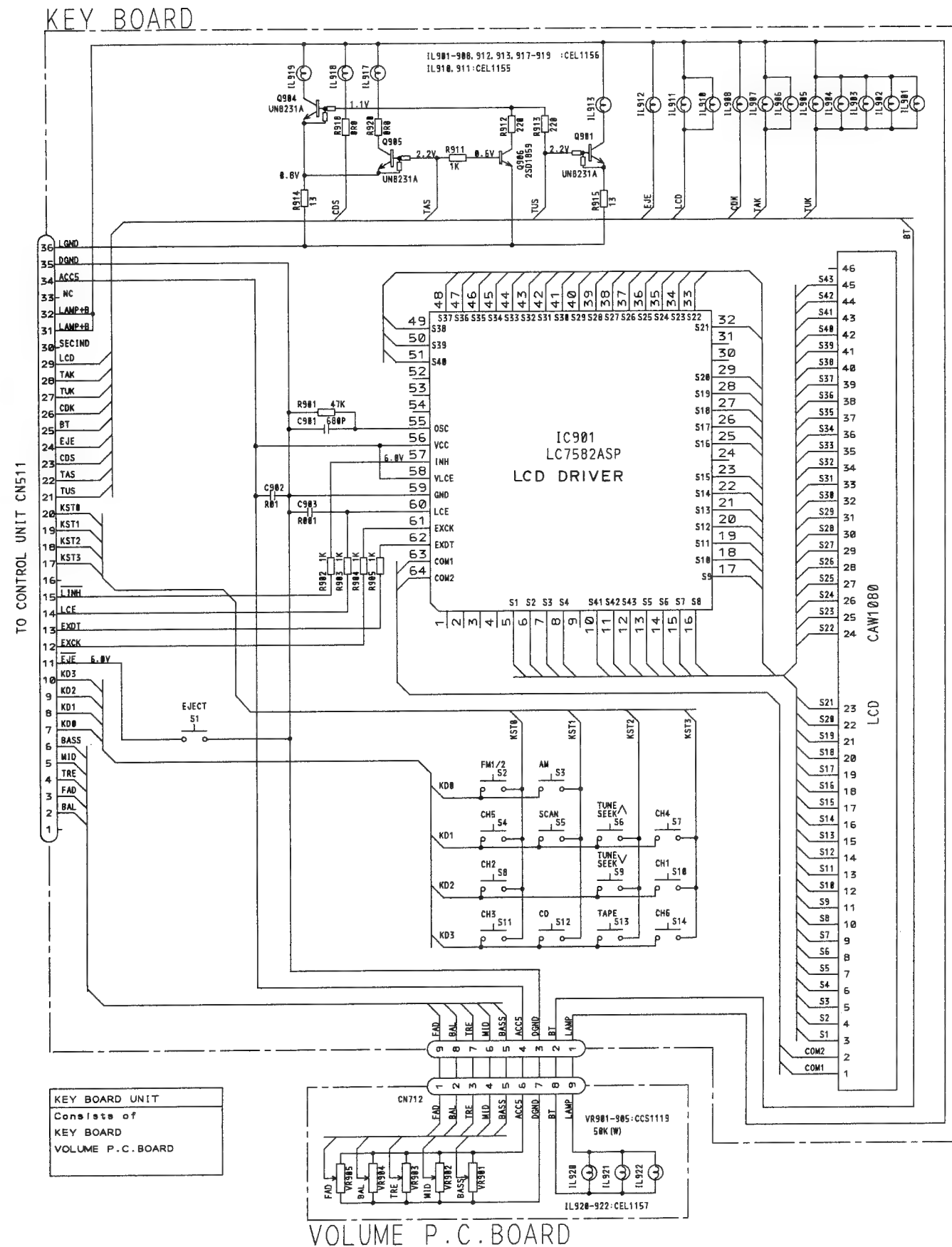


Fig. 25

9.5 CASSETTE MECHANISM ASSY

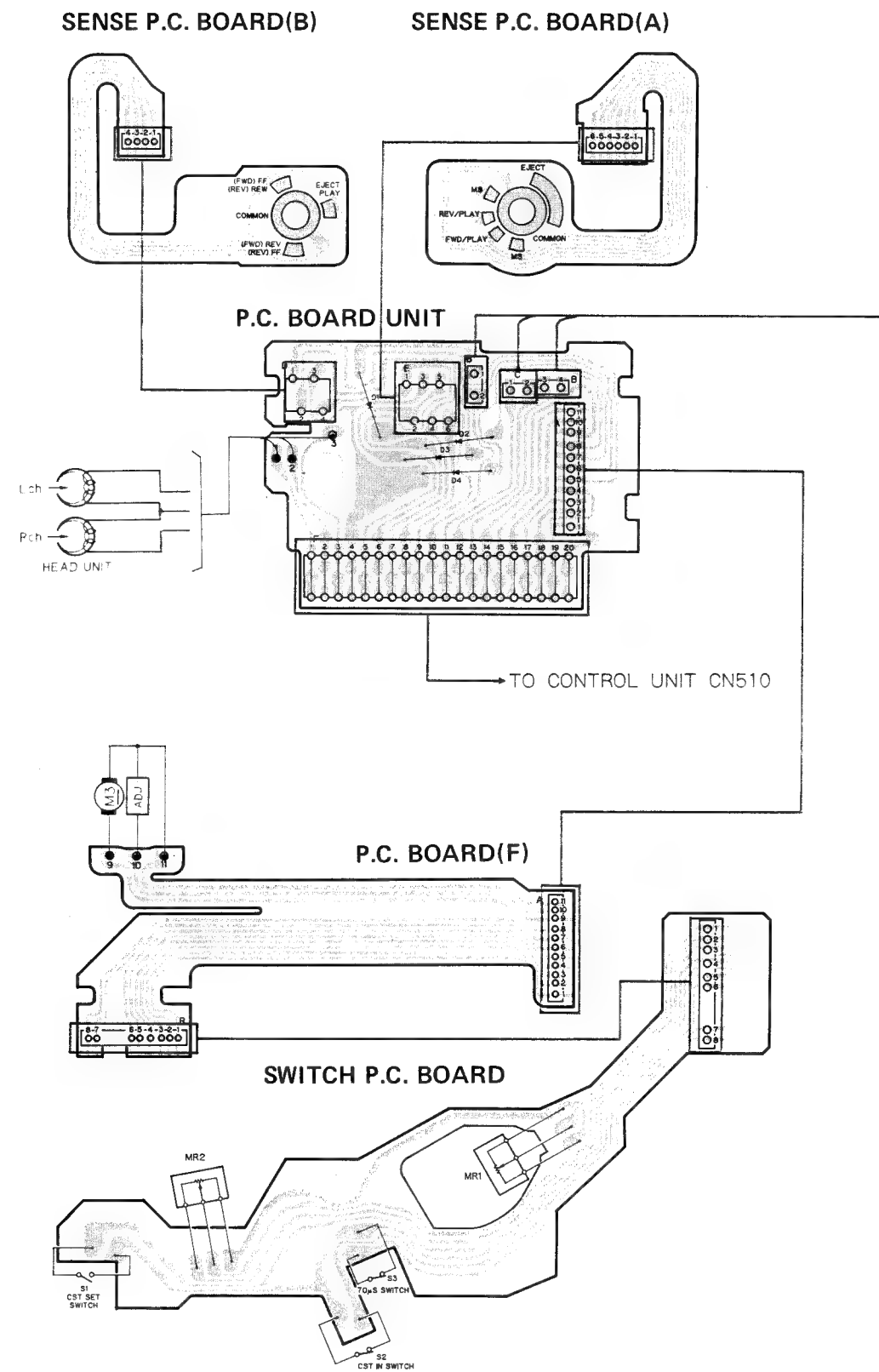
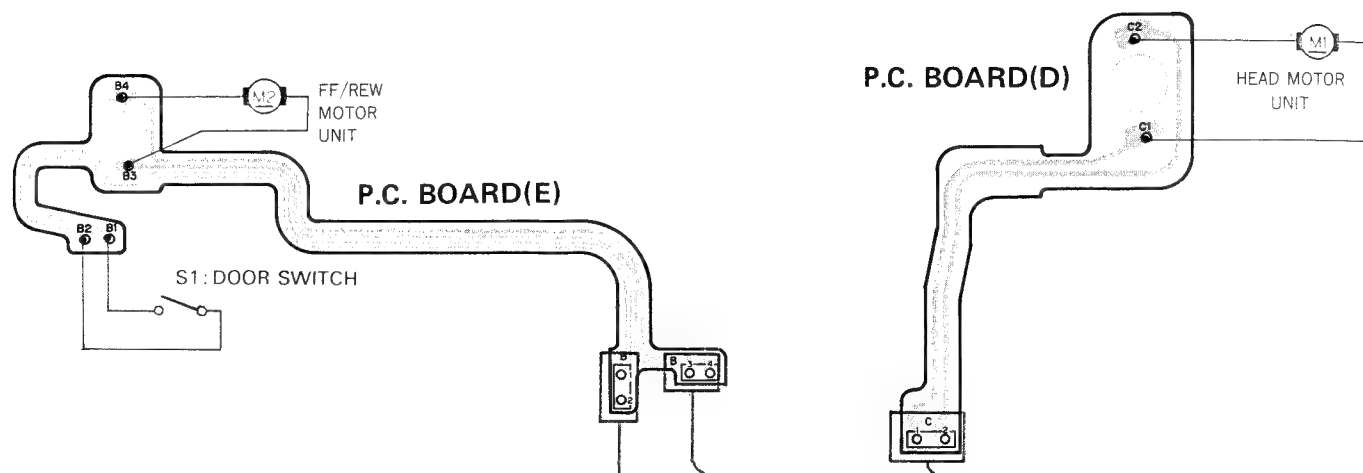
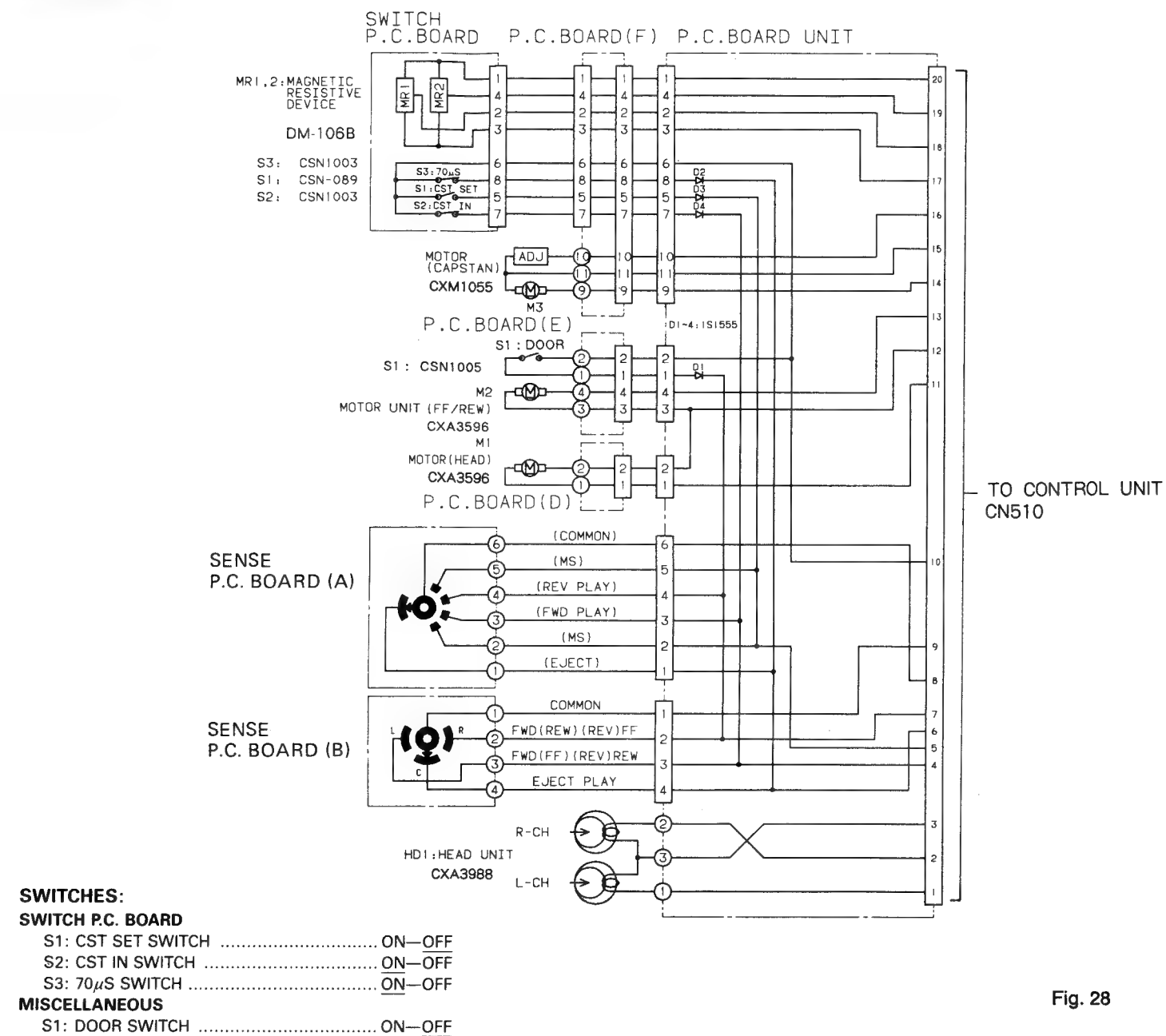


Fig. 29

● Chassis (1)

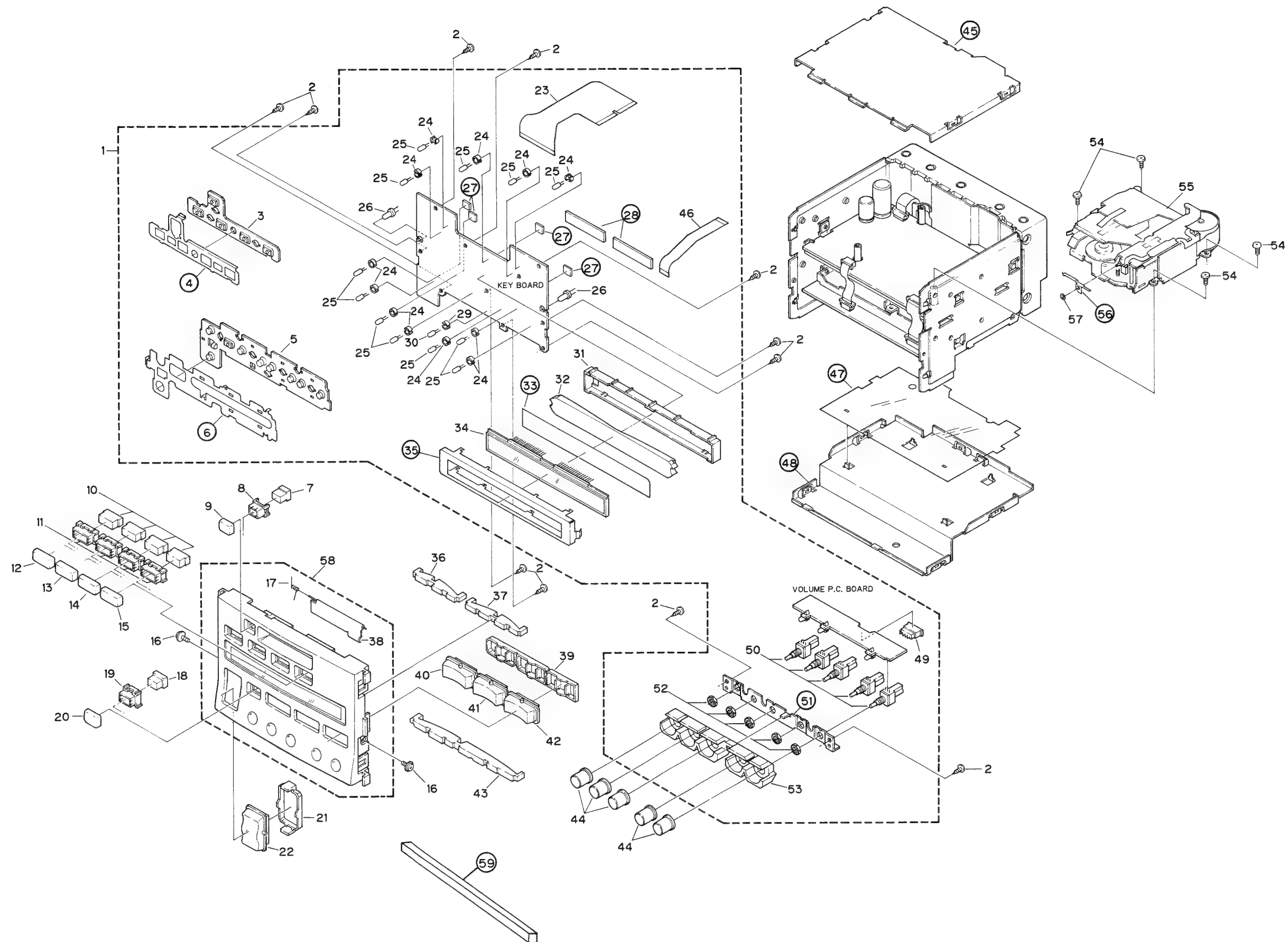


Fig. 32

11. CHASSIS EXPLODED VIEW (2)

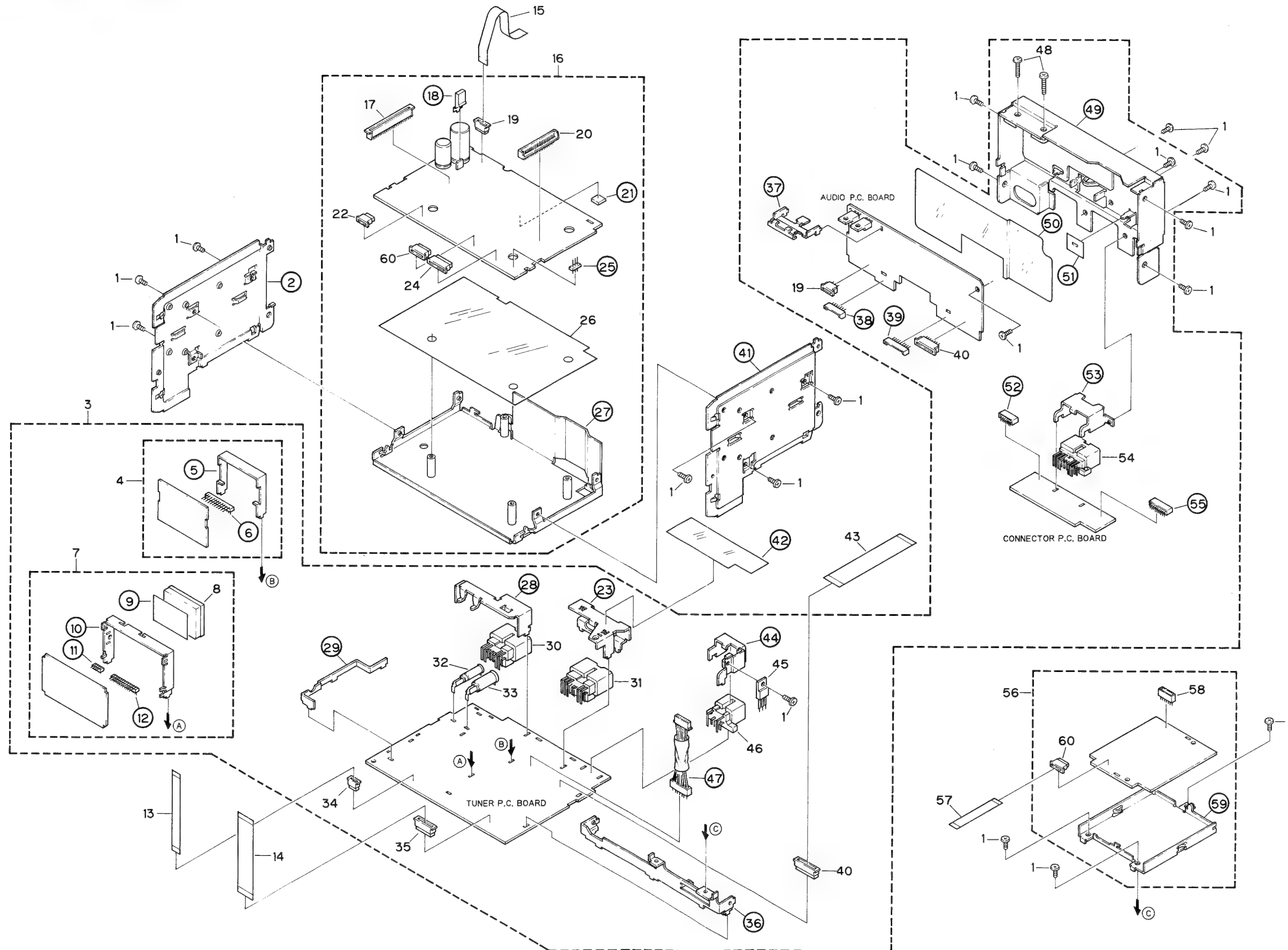


Fig. 33

● Parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
	1 Screw	BMZ30P060FMC	31 Connector	CKM1065	
	2 Side Plate	CNB1309	32 Antenna Jack	CKX1005	
●	3 Tuner Amp Unit	CWM2037	33 Antenna Jack	CKX1006	
●	4 AM Unit	CWA1050	34 Connector	CKS1782	
	5 Holder	CNC2352	35 Connector	CKS2009	
	6 Plug	CKF1017	36 Holder	CNC2997	
●	7 FM Unit	CWE1212	37 Holder	CNC3136	
	8 FM Front End	CWB1059	38 Plug	CKS-646	
	9 Insulator	CNM2842	39 Plug	CKS-649	
	10 Holder	CNC3414	40 Connector	CKS1785	
	11 Plug	CKS1614	41 Side Plate	CNB1310	
	12 Plug	CKS1621	42 Insulator	CNM2621	
	13 Connector	CDE2664	43 Connector	CDE2778	
	14 Connector	CDE2665	44 Holder	CNC3106	
	15 Connector	CDE2667	45 Transistor	2SB942	
●	16 Control Unit	CWM2194	46 Connector	CKM1087	
	17 Connector	CKS1389	47 Connector	CDE2928	
	18 Holder	CNC2328	48 Screw	BMZ30P140FMC	
	19 Connector	CKS2008	49 Cover Assy	CXA3266	
	20 Plug	CKS-659	50 Insulator	CNM2675	
	21 Spacer	CNM2857	51 Insulator	CNM3066	
	22 Connector	CKS2010	52 Connector	CKS-665	
	23 Holder	CNC2998	53 Holder	CNC3137	
	24 Connector	CKS2013	54 Connector	CKM1074	
	25 Plug	CKS-291	55 Connector	CKS-668	
	26 Insulator	CNM2533	● 56 Communication Unit	CWM2038	
	27 Chassis Assy	CXA3176	57 Connector	CDE2668	
	28 Holder	CNC3133	58 Plug	CKS1040	
	29 Earth Plate	CNC3003	59 Case	CNC3002	
	30 Connector	CKM1064	60 Connector	CKS2011	

12. CASSETTE MECHANISM ASSY EXPLODED VIEW

• Parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw (M1.4 × 1.4)	HBA-147	46	Screw	PMS26P025FMC
2	Screw	BMZ20P040FMC	47	Spring	CBH-830
3	Bush	CLB-663	48	Screw (M2 × 2.5)	HBA-174
4	Spring	CBE1023	49	Spacer	CNW-945
5	Spring	CBH-867	50	Spring	CBL1050
6	Spring	CBH-837	51	Washer	CBF1025
7	Arm	CNC2373	52	
8	Holder Unit	CXA2821	53	
9	Gear Unit	CXA2088	54	
10	Washer	CBF1026	55	Screw	BMZ20P025FMC
11	Gear	CNY-271	56	Gear	CNV1616
12	Washer	CBF-126	57	Collar	CLA1238
13	Spring	CBH-835	58	Flywheel	CNV1572
14	E Type Washer	CBG1003	59	Belt	CNT1046
15	Spring	CBH1277	60	Insulator	CNM2592
16	Pinch Roller Unit	CXA2608	61	
17	Spring	CBH1197	62	Cover	CNC2829
18	E Type Washer	YE25FUC	63	Screw	BMZ20P030FMC
19	Arm	CNV1254	64	Screw (M1.7 × 3)	CBA1125
20	Washer	CBF1022	65	Holder	CNV1252
21	Collar	CNW-932	66	Screw (M2 × 25)	CBA-165
22	Spring	CBH-827	67	Guide Unit	CXA2380
23	Reel Unit	CXA2089	68	Spacer	CNC1651
24	Spring	CBH-868	69	Switch	CSN1005
25	Bracket Unit	CXA1481	70	Motor Unit	CXA3596
26	F/R Gear	CNW-944	(FF/REW. Head Position)		
27	Screw	CBA1106	71	Screw	HBA-174
28	Switch (70 μS, CST IN)	CSN1003	72	Bracket Unit	CXA2605
29	Screw (M1.7 × 5.5)	CBA1025	73	Pinch Roller Unit	CXA2609
30	P. C. Board	CNP1223	74	Screw (M2 × 2.5)	CBA1037
31	Switch (CST SET)	CSN-089	75	Pulley	CNV1255
32	Screw (M1.7 × 3)	CBA-186	76	Belt	CNT1047
33	Magnetic Resistive Device	DM-106B	77	Plate	CNC3632
34	Washer	CBF-046	78	Screw	HBA-212
35	Spring	CBH-887	79	Pulley	CNV1256
36	Spring	CBH-886	80	Screw (M2 × 5)	CBA1054
37	Gear	CNV1075	81	Bracket Unit	CXA2606
38	Screw (M2 × 5)	CBA1054	82	Cover	CNV1489
39	Arm Unit	CXD-389	83	Screw (M1.4 × 8)	CBA1055
40	Arm	CNG-618	84	Spring	CBE-114
41	Washer	HBF-179	85	Azimuth Rubber	CNY-134
42	Lever	CNV1257	86	Head Unit	CXA3988
43	Spring	CBH1196	87	Spring	CBH-829
44	Motor (Capstan)	CXM1055	88	Gear	CNW-939
45	Chassis Unit	CXA3544	89	E Type Washer	YE12FUC
			90	Gear	CNV1262

● Cassette Mechanism Assy

ark No.	Description	Part No.
91	Holder Assy	CXA1546
92	Spring	CBH1276
93	Arm	CNV1495
94	E Type Washer	YE15FUC
95	P. C. Board	CNP1227
96	P. C. Board	CNP1738
97	P. C. Board	CNP1851
98	Connector (6P)	CKS1075
99	Connector (4P)	CKS1073
100	
101	Arm	CNH-004
102	Holder Assy	CXA1548
103	Screw (M2×2)	HBA-209
104	Connector (20P)	CKS-678
105	Screw (M2×2×3)	CBA1022
106	Diode	1S1555
107	P. C. Board	CNP1737
108	Arm	CNV1253
109	Screw (M2×7)	CBA1060
110	Screw (M2×4)	CBA1015
111	Screw (M2×2.5)	CBA1041

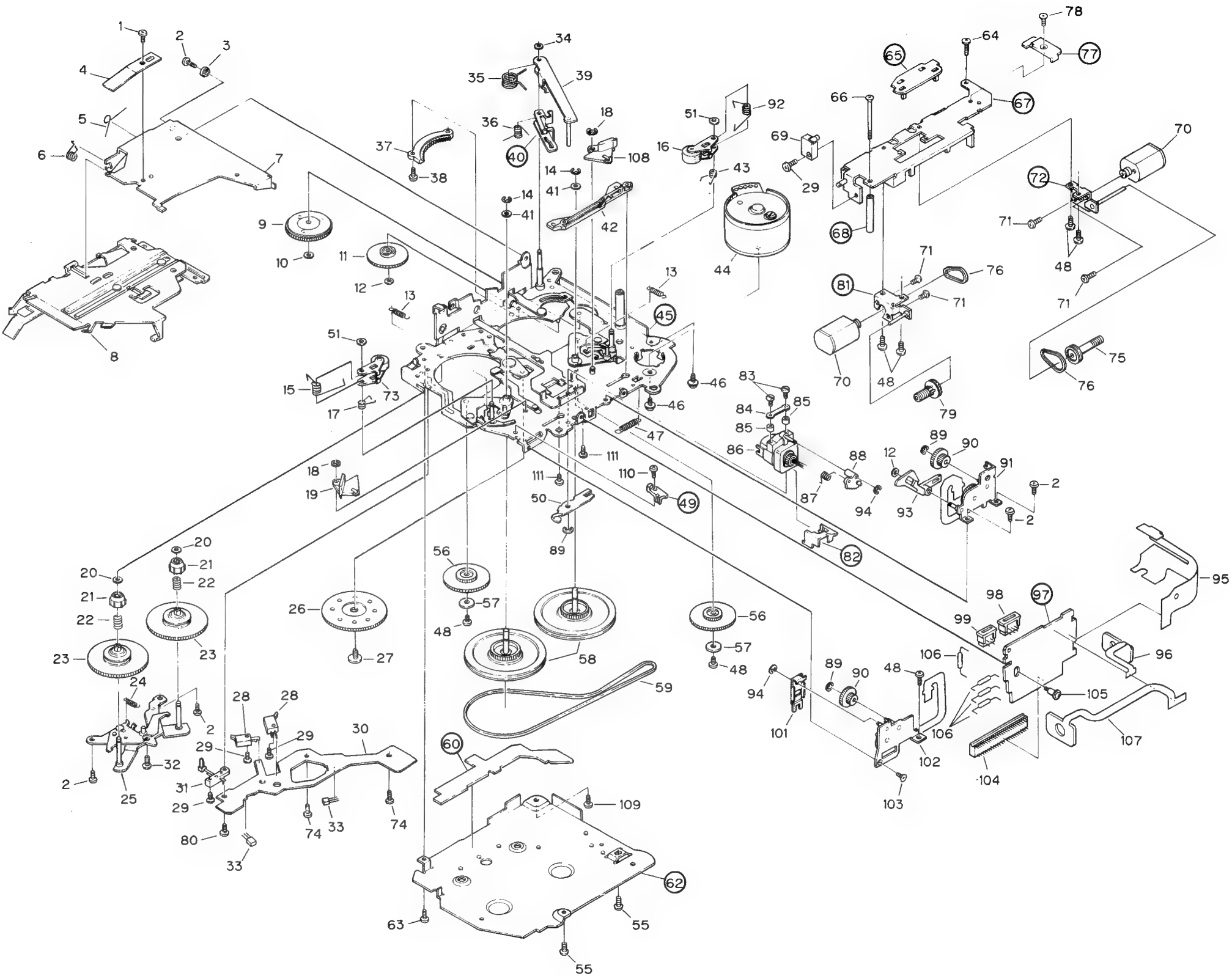


Fig. 34

13. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/8S □□□J, RS1/10S □□□J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

Tuner Amp Unit
Consists of
• Tuner P.C. Board
• Audio P.C. Board
• Connector P.C. Board

Unit Number :

Unit Name : Tuner Amp Unit

MISCELLANEOUS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
IC	26			KHA805A	
IC	27			PA5011	
IC	451			KHA232A	
IC	452	951 952		NJM2068SD	
IC	453			KHA163	
IC	454			KHA233A	
IC	457			CWV1019	
IC	501			LC7218HS	
IC	502			KHA510	
IC	752			KHA241	
IC	953	954		KHA173	
Q	504	505 558 560 562 564 760 951		DTC114ES	
Q	61			2SC3113	
Q	171	172 401 402 405 801 803 804 806 807		2SC2458	
Q	403	559 561 563 802		DTA144ES	
Q	404			DTC144ES	
Q	406	520 805		2SA1048	
Q	501	502 503 554 555 556 557 759 952		2SB1243	
Q	506	507		DTA114ES	
Q	551			2SC2872S	
Q	751			2SB1238	
Q	752			DTC143TS	
Q	761			2SB942	
Q	808	812		2SC2458	
Q	809			2SD1859	
Q	810	811		2SB942	
D	26	27		1SV99	
D	28	171 172 403 405 501 551 553 751 752		1SS133	
D	205	206 520 521 753 804		1SS133	
D	401			5KP24A	
D	402			SM-3-08LFEA	
D	404			RD6R8JSB2	
D	406	801		MA204WK	
D	522			RD5R6JSB1	
D	552			RD5R1JSB2	
D	762			RD5R6JSB2	
D	763			1SS133	
D	802			MT218JB	
D	803	806		MA206	
D	805			RD7R5JSB3	

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
L	26			Ferri-Inductor	LAU1R0M
L	401			Choke Coil	CTH1069
L	402			Inductor	CTH1077
L	501			Ferri-Inductor	LAU150K
T	26			Transformer	CTC-195
CG	26	27			DSP-201M
CR	26				CWW1145
X	501			Crystal Resonator	CSS1030
FU	401	402		Fuse 6.3A	CEK1008

RESISTORS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
R	26			RS1/10S681J	
R	27	771 803 809 821		RD1/4PS223JL	
R	28	509 510 511		RS1/10S102J	
R	61	401 402 403 404 407 408 455 456 501		RD1/4PS103JL	
R	62	409 412 413 502 753 804		RD1/4PS104JL	
R	171	172		RS1/10S472J	
R	173	174		RS1/10S333J	
R	175	176 579 580		RS1/10S222J	
R	177	178 755 801 971		RD1/4PS472JL	
R	179			RD1/4PS100JL	
R	405	410 503 505 552 758 770 974		RD1/4PS102JL	
R	406	411 415 558 560 562 564 575 772 807		RD1/4PS222JL	
R	414	581 582 811 826 951 952 953		RD1/4PS473JL	
R	451	452		RD1/4PS562JL	
R	453	454 459 751 816 955 956 959 960 972		RD1/4PS103JL	
R	464	465 466 467 468 469		RD1/4PS470JL	
R	504	506 557 559 561 563 769 805 806 808		RD1/4PS103JL	
R	507			RS1/10S473J	
R	508	523		RS1/10S103J	
R	512			RS1/10S332J	
R	513	576		RD1/4PS912JL	
R	520	810 815 823		RD1/4PS101JL	
R	521			RS1/10S152J	
R	522			RS1/10S153J	
R	551	957 958 961 962		RD1/4PS123JL	
R	553			RD1/4PS272JL	
R	567	568 954 967 968 969 970		RD1/4PS473JL	
R	577	578		RS1/10S471J	
R	583	584 585 586 587 588 589 590 591 592		RD1/4PS560JL	
R	593	594 595 596 597 598		RD1/4PS560JL	
R	599			RD1/4PS471JL	
R	752			RD1/4PS391JL	
R	754			RD1/4PS562JL	
R	773	963 964 965 966 975 976 977 978		RD1/4PS0R0JL	
R	802			RD1/4PS183JL	
R	812			RD1/4PS332JL	
R	813			RD1/4PS273JL	
R	814			RD1/4PS471JL	
R	817	818 819 820		RD1/4PS47JL	
R	822			RD1/4PS682JL	

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
R	824			RD1/4PS820JL	
R	825			RD1/4PS152JL	
R	973			RD1/4PS332JL	

CAPACITORS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
C	26	32 34 508 511 561 562		CKSQYB103K50	
C	27			CCSQCH100D50	
C	28	513 514		CKSQYB102K50	
C	29	33 509 762 959 960 961 962		CEA100M16L2	
C	30	512 520 552		CEA220M16L2	
C	31			CKCYB471K50	
C	801			CEA2R2M50L2	
C	61	404 406 554 555 556 557 754 760		CGCYX473K25	
C	171	172		CKSQYB153K50	
C	173	174		CEAR33M50NPLL	

C	175	453 454 951 952 953 954 955 956 957		CEA101M10L2	
C	401	402		CEA2R2M50LS2	
C	403		3300 μF/16V	CCH1037	
C	405		1000 μF/16V	CCH1003	
C	451	452		CEA100M16NPLL	
C	455	456 457 458		CEA4R7M16NPLL	
C	463			CKSQYB102K50	
C	464	467		CEA100M16L2	
C	465			CEAR47M50L2	
C	466	761	470 μF/16V	CCH-114	
C	504	505		CCSQCH270J50	
C	506	507		CCSQCH101J50	
C	510		4.7 μF/16V	CCH1005	
C	551	553		CEA471M10L2	
C	563			CEA470M16L2	
C	564	565 752		CGCYX103K25	
C	751			CEA010M50L2	
C	757			CKSQYB103K50	
C	758	759		CEA010M50L2	
C	763			CGCYX473K25	
C	802			CEA101M16L2	
C	958			CEA101M10L2	

Unit Number :

Unit Name : Communication Unit

MISCELLANEOUS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
IC	351			PD5137	
IC	352			GGF-910	
IC	353			Θ N3111	
Q	351	353		DTA114ES	
Q	352			DTC114ES	
Q	354	355		2SD1859	
D	351	355		1SS133	
D	352	353		ERA15-02	
D	354			RD9R1JSB1	
L	351	352	Coil	CTF1070	
L	353		Ferri-Inductor	LAU101K	
IB	351			CWW1271	
IB	352	354		CWW1298	
IB	353			CWW1230	
IB	355	356		CWW1241	
X	351			CSS1051	

RESISTORS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
R	351	352 353 354 355 357 361 363 364 365		RS1/10S102J	
R	356	360 362 378		RS1/10S473J	
R	358			RS1/10S105J	
R	359			RS1/10S471J	
R	366	367 368 369 370 371 372 373 377 379		RS1/10S102J	
R	374			RD1/4PS103JL	
R	375			RD1/4PS223JL	
R	380	386		RS1/10S102J	
R	381			RD1/4PS562JL	
R	382			RD1/4PS331JL	
R	383			RD1/4PS222JL	
R	385			RD1/4PS471JL	
R	391	392 393 394		RD1/4PS560JL	
R	395	396 397 398		RS1/10S104J	

CAPACITORS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
C	351	357		CKSYB473K50	
C	352	356 362		CKSQYB472K50	
C	353	354		CCSQCH101J50	
C	355			CCSQCH330J50	
C	358	363 365		CEA101M10LS	
C	359	360		CKPY103M16L	
C	361			CEA470M16LS	
C	364			CASA010M25	
C	391	392 393 394 395		CKSQYB472K50	

Unit Number :

Unit Name : Control Unit

MISCELLANEOUS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
IC	301			CWV1017	
IC	601			PD4243	
IC	602			CWW1178	
IC	603			TC4028BP	
IC	605			M51957BL	
IC	606			CWV1001	
IC	607			TC35095P	
IC	851			MB88306P	
Q	601			2SA1048	
Q	702			2SC3474	
Q	703	851		2SD1859	
Q	704	705		2SC2458	
Q	706			DTB133HV	
Q	707	708		DTA114ES	
Q	852	853 854 855 856 857 858 859 860 863		DTC144ES	
Q	861	862		DTA144ES	
Q	864			DTC144ES	
Q	865			2SB1243	
Q	866	867 868 869 870 871 872 873		DTB1132V	
Q	874	875 876 877 878 879 880 881 882 883		UN8231A	
Q	884			UN8231A	
D	301	601 602 603 604 605 606 607 609 610		1SS133	
D	608			HZS38LL	
D	611			1SS133	
D	702			ERA15-02	
D	703			HZS681L	
D	704			RD5R6JSB2	
D	705	706		RD7R5JSB3	
D	851			HZS2CLL	
L	601		Ferri-Inductor	CTF-157	

Mark ===== Circuit Symbol & No. ===== Part Name Part No.

L	602		Ferri-Inductor	LAU150K
1B	601	602		CWW1240
1B	604	605		CWW1233
1B	606			CWW1153
1B	607			CWW1126
1B	608			CWW1298
X	601		Crystal Resonator	CSS1029
VR	301	302	Semi-fixed 10k Ω (B)	VRTB6VS103

RESISTORS

Mark ===== Circuit Symbol & No. ===== Part Name Part No.

R	301	302	305	306	615	621	622	636	637	RS1/10S473J	
R	303	304								RS1/10S272J	
R	307									RD1/4PS101JL	
R	308									RS1/10S104J	
R	601	602	603	604	605	606	620	628	630	634	RD1/4PS102JL
R	613										RD1/4PS223JL
R	614	652									RD1/4PS473JL
R	616	617	618	619							RS1/10S102J
R	623	624	625								RS1/10S471J
R	626	666	667	668	703						RD1/4PS471JL
R	627										RS1/10S105J
R	629	653	654	669	670	671	672				RD1/4PS222JL
R	632	639	657	658	665	673	704	705	707		RS1/10S104J
R	635	678	679	682	702	854					RD1/4PS103JL
R	638										RD1/4PS104JL
R	651	663	664	706	708						RS1/10S473J
R	655	656	659	660	661	662	681	853			RD1/4PS102JL
R	674	675	676	677	851						RD1/4PS222JL
R	680										RD1/4PS272JL
R	701										RN1/2P6R8JL
R	710										RS1/10S333J
R	711										RS1/10S223J
R	852										RS1P101JL
R	855										RD1/4PS221JL
R	856	865	866								RD1/4PS130JL
R	857	858									RD1/4PS9R1JL
R	859	860	861	862	863						RD1/4PS8R2JL
R	864										RD1/4PS6R8JL

CAPACITORS

Mark ===== Circuit Symbol & No. ===== Part Name Part No.

C	301	302								CKSQYB681K50
C	303	304	617							CEA220M10LS
C	305	306	701							CEA4R7M35LS
C	307	308								CEA010M50LS2
C	309	310								CEA4R7M16NPL
C	311	313	707							CEA100M16LS2
C	312									CEA101M10L2
C	314									CEA101M10L2
C	601	602								CEA470M6R3LS
C	603									CCH-114
										470 μ F/16V
C	604	605	613	616	709	714	716	851		CKSYB473K50
C	606	609	708	717						CKSYB103K50
C	607									CEAR22M50LS2
C	608									CEANL3R3M50LL
C	610									COEA223J50

Mark ===== Circuit Symbol & No. ===== Part Name Part No.

C	611	612								CCSQCH330J50
C	614									CASA010M25
C	615	852								CKSQYB102K50
C	618									CCSQCH101J50
C	619	620	622	623						CKSQYB103K50
C	706									4700 μ F/16V
C	711									2200 μ F/16V
C	712									CCH1061
C	713									CCH1001
C	715									CASA010M25
										CEA470M16LS
										CEA101M10LS

Key Board Unit

Consists of

- Key Board
- Volume P.C. Board

Unit Number :

Unit Name : Key Board Unit

MISCELLANEOUS

Mark ===== Circuit Symbol & No. ===== Part Name Part No.

IC	901										LC7582ASP
Q	901	904	905								UN8231A
Q	906										2SD1859
IL	901	902	903	904	905	906	907	908	912	913	CEL1155
		917	918	919							Lamp 8V 60mA
IL	910	911									Lamp 8V 100mA
IL	920	921	922								Lamp 8V 60mA
VR	901	902	903	904	905						Volume 50k Ω (W)
											LCD
											CCS1119
											CAW1080

RESISTORS

Mark ===== Circuit Symbol & No. ===== Part Name Part No.

R	901										RD1/4PS473JL
R	902	903	904	905	911						RD1/4PS102JL
R	912	913									RD1/4PS221JL
R	914	915									RD1/4PS130JL
R	918	920									RD1/4PS0R0JL

CAPACITORS

Mark ===== Circuit Symbol & No. ===== Part Name Part No.

C	901										CKPYB681K50L
C	902										CKPYB103M16L
C	903										CKPYB102K50L

Unit Number :

Unit Name : AM Unit

MISCELLANEOUS

Mark ===== Circuit Symbol & No. ===== Part Name Part No.

IC	201										KHA507A
IC	202										LA1136N
Q	201										2SK435
Q	202										2SC2458
D	201										KV1280F1-2
D	202	203									1SS133
L	201										Inductor
L	202										Ferri-Inductor
L	203										Ferri-Inductor
T	201										Coil
											LAU680K
											LAU330K
											CTB1051

Mark ===== Circuit Symbol & No. === Part Name Part No.

T	202	Coil	CTB-171
T	203	Coil	CTB1044
T	204	Coil	CTB1045
T	205	Coil	CTE1030
T	206	Coil	CTE1034
T	207	Coil	CTB1043
CF	201	Filter	CTF-100
CF	203	Ceramic Resonator	CTF1039

RESISTORS

Mark ===== Circuit Symbol & No. === Part Name Part No.

R	201		RS1/10S682J
R	202		RS1/10S471J
R	203	218	RS1/10S220J
R	205	210 212 213 217	RS1/10S103J
R	206		RS1/10S394J
R	207		RS1/10S472J
R	209		RD1/4PS472JL
R	211		RS1/10S223J
R	214		RS1/10S473J
R	215		RS1/10S101J
R	216		RS1/10S562J
R	219	220	RS1/10S104J

CAPACITORS

Mark ===== Circuit Symbol & No. === Part Name Part No.

C	201	205 206 211 213 221 222	CKSQYB223K25
C	202		CEA680M10LS
C	203	225	CCSQCH220J50
C	204		CEA010M50LS2
C	207	210	CCSQCH100D50
C	208		CKSQYB333K25
C	209		CCSQCH010C50
C	212	220	CEAR47M50LS2
C	215		CQMA393J50
C	216		CQMA223J50
C	217		CKSQYB103K50
C	218		CEA3R3M50LS
C	219		CEA4R7M35LS
C	223		CQPA751G2A
C	224		CCSQCH470J50
C	226		CCSQCH680J50
C	227		CCSQCH680J50
C	228		CEA470M16LS
C	229		CCSQCH180J50

Unit Number :
Unit Name : FM Unit

MISCELLANEOUS

Mark ===== Circuit Symbol & No. === Part Name Part No.

IC	51		KHA141A
IC	101		KHA146
Q	11	82 83	2SC3295
Q	12	51	DTC124EK
Q	81	84	2SA1162

Mark ===== Circuit Symbol & No. === Part Name Part No.

D	81	Chip Diode	MA153-MC
D	82	Chip Diode	MA151K-MH
D	152	Chip Diode	MA704-M1K
L	51	Inductor	CTF1104
T	51	Coil	CTC1065
CF	51 52	Ceramic Filter	CTF1130
VR	51 152	Semi-fixed 22k Ω (8)	CCP1021
VR	52	Semi-fixed 15k Ω (8)	CCP1020
VR	53	Semi-fixed 33k Ω (8)	VRT84VS333
VR	101	Semi-fixed 15k Ω (8)	CCP1020
		FM Front End	CWB1059

RESISTORS

Mark ===== Circuit Symbol & No. === Part Name Part No.

R	2		RS1/10S102J
R	3		RS1/10S101J
R	6		RS1/10S122J
R	7		RS1/10S103J
R	11		RS1/10S0R0J
R	52		RS1/10S311J
R	53		RS1/10S153J
R	58	101	RS1/10S332J
R	72		RS1/10S0R0J
R	81	82 89 155	RS1/10S223J
R	83		RS1/10S222J
R	84	156 157	RS1/10S272J
R	85	87	RS1/10S182J
R	86		RS1/10S680J
R	88		RS1/10S105J
R	99		RS1/10S0R0J
R	102		RS1/10S392J
R	103		RS1/10S183J
R	152		RS1/10S203J

CAPACITORS

Mark ===== Circuit Symbol & No. === Part Name Part No.

C	1		CKSQYB103K50
C	3		CKSQYB102K50
C	11	60 132	CKSQYB473K25
C	57		CEVR47M50
C	62	82	CEV010M50
C	63		CEVNP4R7M16
C	70		CCSQCH100D50
C	81	158	CKSYB104K25
C	84		CCH1055
C	103	105	CEV470M16
C	154		CKSQYB472K50
C	159	160	CKSQYB273K50
C	161		CEV101M10

Unit Number :
Unit Name : P.C. Board

Mark ===== Circuit Symbol & No. === Part Name Part No.

D	1	2 3 4	1S1555
---	---	-------	--------

Unit Number :
 Unit Name : Switch P.C. Board

Mark	===== Circuit Symbol & No.	==== Part Name	Part No.
S	1	Switch(CST SET)	CSN-089
S	2 3	Switch(CST IN.METAL)	CSN1003
MR	1 2	Magnetic Resistive Device	DM-106B

Miscellaneous Parts List

Mark	===== Circuit Symbol & No.	==== Part Name	Part No.
M	1 2	Motor Unit (Head, FF/REW)	CXA3596
M	3	Motor (Capstan)	CXM1055
HD	1	Head Unit	CXA3988
S	1	Switch(Door)	CSN1005

9.6 AM UNIT

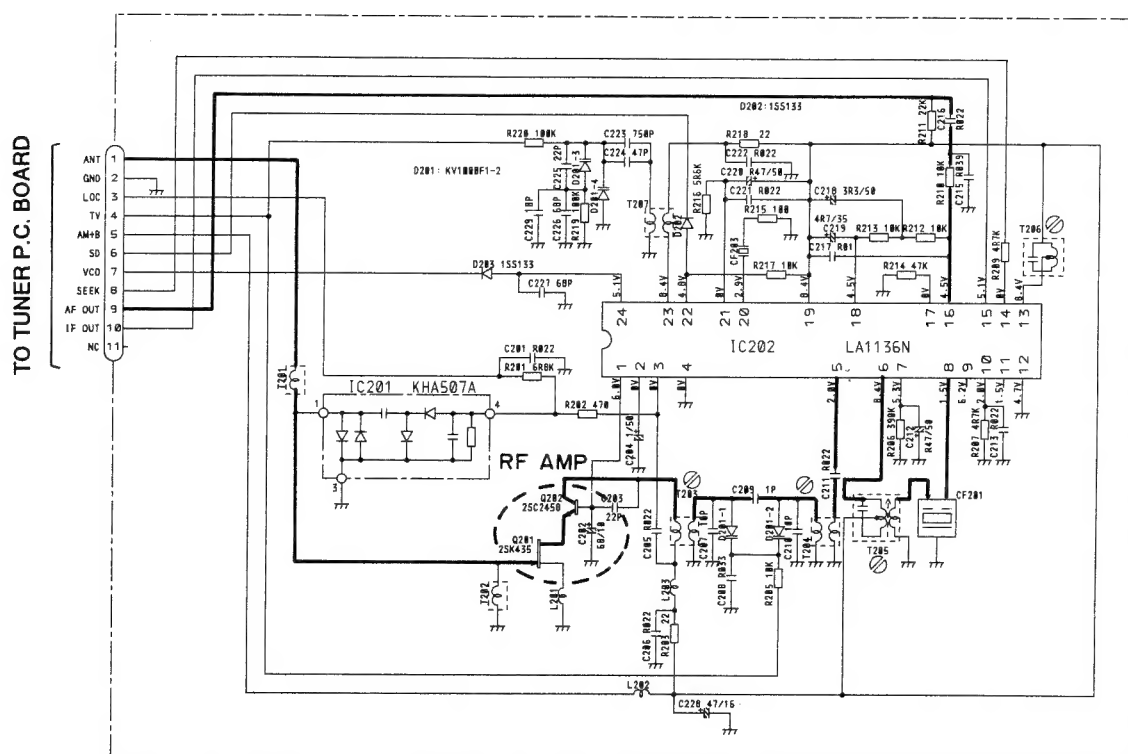


Fig. 30

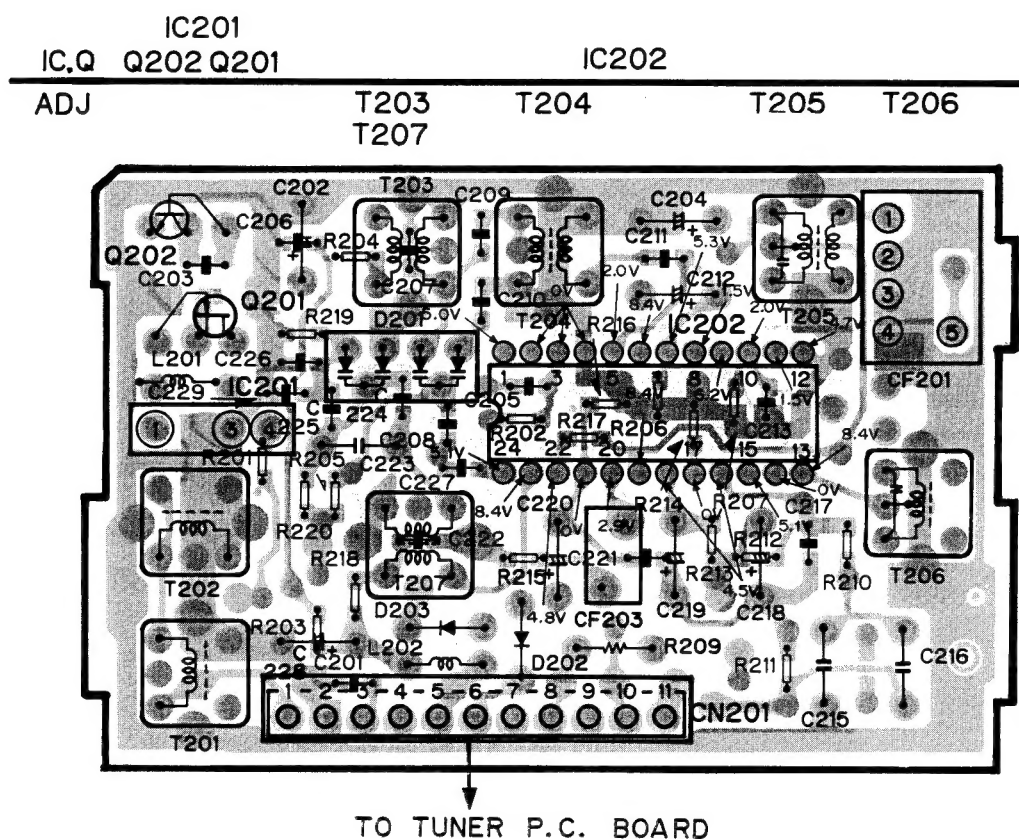


Fig. 31

10. CHASSIS EXPLODED VIEW (1)

NOTE:

- The parts marked with "●" may need long time to supply and their supply is subject to refuse as the case may be.
- Because the parts with encircled number shown on the dismantling drawing are not spare parts, we are unable to supply them in principle.

● Parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
● 1	Key Board Unit	CWS1151	31	Holder	CNV2327
2	Screw	CBA1161	32	Lens	CNV2833
3	Rubber	CNV2337	33	Plate	CNM2530
4	Conductor	CNC2994	34	LCD	CAW1080
5	Rubber	CNV2338	35	Holder	CNC2992
6	Conductor	CNC2995	36	Lens	CNV2329
7	Lens	CNV2335	37	Lens	CNV2330
8	Holder	CNV2324	38	Door	CAT1295
9	Button (EJECT)	CAC2310	39	Holder	CNV2321
10	Lens	CNV2333	40	Button (1, 2)	CAC2307
11	Holder	CNV2320	41	Button (3, 4)	CAC2308
12	Button (AM)	CAC2303	42	Button (5, 6)	CAC2309
13	Button (FM1/2)	CAC2304	43	Lens	CNV2331
14	Button (TAPE)	CAC2305	44	Knob	CAA1237
15	Button (CD)	CAC2306	45	Case	CNB1307
16	Screw	PMS30P040FMC	46	P. C. Board	CNP2274
17	Spring	CBH1214	47	Insulator	CNM2532
18	Lens	CNV2336	48	Case	CNB1308
19	Holder	CNV2325	49	Connector	CKS2012
20	Button (SCAN)	CAC2311	50	Volume	CCS1119
21	Holder	CNV2326	51	Holder	CNC2993
22	Button (SEEK TUNE)	CAC2312	52	Nut	CBA-066
23	P. C. Board	CNP2273	53	Lens Assy	CXA4208
24	Holder	CNV1906	54	Screw	BMZ26P050FMC
25	Lamp	CEL1156	● 55	Cassette Mechanism Assy	CXK1687
26	Lamp	CEL1155	56	Arm	CNC1280
27	Spacer	CNM2448	57	Washer	CBF-046
28	Cushion	CNM2856	58	Grille Unit	CXA3175
29	Holder	CNV1906	59	Cushion	CNM3138
30	Lamp	CEL1156			